

ttttccaaaa gttgaagcaa ataaattaat ttaacttctt atagataaat ttatccagga 120  
 tgatcttggt atgtatttct tctttgggag attgtaagat tacccttaac ttacaatntg 180  
 aatntatatt ctgaattatg tgagttatat ataagtgggtg ttatgtttga taatggattt 240  
 gtttatttta gctctaaata tattnttatt cttgtatctt ttttagtctt tataaaatat 300  
 gtttatttta tttttgtggt ntagatagta ctttgaacag taaaaaatat tctaaacaac 360  
 gaaataaaga ctatttaaaa cactttacag ggacaaaaat g 401

<210> 31188  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31188

ttagcttgta gttgtataaa ctaaagnngg nggcagcaat gaggaagatg cagaaacggg 60  
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 tactaacaat ggagaccata tgaagtgtgc aattttttat actgatttgg tgcacagagg 180  
 gaagtcactt aatttaaggg aattgaaatc tttacctggc aattcggtag gtaaagttga 240  
 ggtagatgct gatgatatag catataataa agggaacaag catattagta aaacaaaaca 300  
 caggaaaggt aagcttgatg acatttcacc aagtgggaca gaaactgcta agatatacag 360  
 caaanagaat agtagtaatg ctgactgcc aagagctaaa cacaatagag atgctact 418

<210> 31189  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 31189

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 gtgaatgagt attttattct accatcgcag gtcattgttg gctgatgagc ctatttcaaa 180  
 acaacaacat tttaggatta actagcatga tatgagatcc ttgccactac acgggtcact 240  
 cgactgtttt tgtaagattt ataggtaata aatataaata atataatata tttccaatta 300

jc503 U.S. PTO  
 09/421106  
 10/16/99

attaaggtta tcgctagaat caatattaag gttaatgcta gaatgaatat ctatgtgatg 360  
 agtatatcga ttataaaaaat ctaaactata tcttctgtgt taacaagaat aaaacaataa 420  
 gatg 424

<210> 31190  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31190

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 aaattggaat agaggttagg attgatttta taagagtgac tcttccccca naagatatgt 180  
 gtctctgttt ccactttgct agtttctctc cgtacttata gattattgng tcccacaact 240  
 gacacctcct tggatttgcc ccagtgggca tccccaagta aacaaaaggg atggacagca 300  
 ggctacaatt caagtaattg gctgcattnt gcttccacga ctccgacata ccaatngatc 360  
 cgaatctgct ttttgcannt attattgaga cctgacacca attcaaaggt cctcaagatg 420  
 gctttgatca ccctgatgtt ctncattgat 450

<210> 31191  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31191

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 catgccttta ctctttatnt tactggatga cattttctag aataagggt taaatgatag 120  
 agactatgaa gggaggaaag caaacaggaa ttatggtgca ttgggggttg aatgaaagtg 180  
 gaaagaaaag gaagagaaat agtaacctta gaaagaaaaa ttcaataatc aattatttct 240  
 ttgcgaagtt actttttttt caatcaaata taaaactttt ctcttctccc cactttttgt 300  
 caccacacca aatgaccata aatgattgaa acttaatgga gttactcttc aatgggctta 360  
 tatgatgatc tattttttga tgtattgtca tactaattga tagctttat 409

<210> 31192  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 31192

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 cacttgctag tttgagacct gcaatgagtg cctcatactc ggcctaatta tctaaggctt 120  
 agaagttaag ctagaggggt cactctagag taacatcatt aaggccttcg aggatgattc 180  
 gtaccccgcga tcctttcatg ttggacgcac tgtcaatgta gaggctccac cagtctaggg 240  
 tgggtatggtc gttccagaaa atctgcatga actgggtctca tgggctgtaa ggtcatactg 300  
 agatccactc tagagtctac tgacatgcaa catctct 337

<210> 31193  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31193

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 tttgcgtgta aggatccctt gttcaaaagg atgggagctt ctagaatggc ttcgtttgcc 120  
 gtagatggta aggtctgcta tctatatnct tctgtcacta aatgcttgct attgctatct 180  
 tatgaccctt atttctttgg tgcattgacat atatngaact tttattaatc attagtcatt 240  
 tgcataattag aggtagttgt ttctagaacg gattcctatt cttgtaacaa gcataatttc 300  
 attatccctg tgctttacac tagtgacatt tagtcattta atatttatct caacttaatt 360  
 cttgaaat 368

<210> 31194  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31194

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ngcangcaag tttattttta ctttacacag acnaagcgaa naggncggga cagaacacac 120  
 cccancaanc gnaggaanca aagcagagaa agannncaaa acgcngacca accaaaccgg 180  
 agcaacaaag acancccgaa ncatcataca gaaaacaaga cccaccaccc gccaatgac 240  
 gaaacacaat aaagcatgaa aaccatccag acttatgggt ttaacgctcc ccatttgact 300  
 aacagtctaa tgagatgtag tagcccaatg aagacaacca acatccacat accatttctga 360  
 tgtaagctcc attggagctt gcaagcctac gatcttcttc atcaatggat tcctttgctt 420  
 cttgcaacat gaatggctgc agaattggaga aggaagagag agaggacacg ccacttcaat 480  
 gacaacacta gtctagaaca tgctcaccac catatgaaag cg 522

<210> 31195  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31195

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtggg 60  
 acctggagat atgtcgcggn ggtcaggaga ccttgnggac gtcaagtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcgggtcag tgagaacctg 180  
 tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240  
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggatgggtg 300  
 cctctggtaa tcgattacca aggggtgggta atcgatta 338

<210> 31196  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31196

agcttatgtt gtatattatt gatgncaaac aaagaagtaa aaacagtga ggtatggtg 60  
 gtcaaaccag ttgcgaaatc ttcaaactca tggggatagg catcccaagt gatatgctgt 120  
 aaagcaccac aaaaaatggg aactatatta ggacttccaa aagaaatgct atgctggctt 180  
 ctattaaaca tggaattgaa ctcaacggga ttagtcttcc accctacaag gaaaggaaac 240

cacccttcga atttgggctt aaggcctaac tcanaccggc tnttaaggta aggactaata 300  
aagccttana aggactccat tagagcatct ctaatgggtg taatttaagc aacctattnt 360  
gagttgttta cattactgtt aattgtccca acaatgtcac atcanattta agtaattcat 420  
atata 425

<210> 31197  
<211> 302  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31197

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gttggacctc ccaagagagt atggagtcag caccactttt aatatttctg atttaattcc 120  
ttttgcaggt ggagctgata tagaagagga agaaccaata gatttgaggt caaatcctct 180  
tcaaggggga ggggatgatg caatcctccc taggaaagga ccagttacca gagccatgag 240  
caagaggctc caagaggatt gggctagagt tgataaagaa ggccttangg ttctcatgaa 300  
cc 302

<210> 31198  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31198

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ccttgtgata aaggtagtgt tgccatgttt tcacagccca tattaatgca tacaactcct 120  
tatcataagt agaatagttc aaggtaggac cacttaactt ttcactacca taagcaatcg 180  
gatggccttc ttgcatcaac acagcctcag tccccacatt cgaagcatca cactcaatnt 240  
caaaagattg ttgacagtca gacaacgcaa gtatggaggc attagatagc tntttcttaa 300  
gaacattgaa agcatcttct tgattctctc cccattcgaa accaacatta tgctagagca 360  
cgtcattgac aggtgctggc aatgtgctaa aatccttcac atatcatcta t 411

<210> 31199

<211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31199

ttagcttgtg atctcacacg aaccttattg actgggtttc ttcgaagctt aacctanaag 60  
 aaggttaana gaagcttaac ctcatcttct catgaactgc aatttcgagt cgggaagggt 120  
 cgcgccggcc gggaagtcaa cctcgggttg tagaagaaca agcttaagga agtcaacctc 180  
 gggttgtaga agaacaacct cagggttcaa agagtgaaca acctangggc ttgcttcana 240  
 tgcgaaatga gcaacaaggt taggggttcag aacagtgaac tcaaatgcga aagcaattan 300  
 gggtttttga actaaaattt ttttttttaa tttgatttac gacgggtttt taataataaa 360  
 ctggcataaa tttataacac anaacattct aagggtgggt tcaataaccc gcttagaatg 420  
 tacgtcgtga attccaantt tcagtattat a 451

<210> 31200  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31200

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 tttcangcac atgcctttgg acccaagacc acatactgaa ttcattgtaa tctcaagatg 120  
 caccctggcc cttatgttct ttgaaatgtc aatttggtc ttgtgtggag gaaaatataa 180  
 ttgatcatcc atgtcaataa gtgcacgtc gtcggcatcc ttaccactgt nttcagaggt 240  
 tgaaagtgt cttcccaaaa aataacaccc atatcaatag tctcttggtc ttcaatgcgg 300  
 tcatcagtga gtaaaagtga gaactcagag aatatgc 337

<210> 31201  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31201

tcaacagacc tccaancnag aatggagagg gnnaccacta ctggacaacc cgaatgcaaa 60

gttttatcga ggcaatagat ctaaatatct gngaagccat aganatangg ccttatatac 120  
ccaccacagc agaaagagtt tcaatagatg gtagttcatc aagtgaaagc ataaccatag 180  
aacaacctac agatagatgg tctgaagagg atagaacacg agtacaatac aacctataag 240  
ccaagaacat aataacatct gccctatgaa tggatgaata gttcacaagt tcaaattgca 300  
agagtgctaa agacatgtgg gacactcctt cgataacaca tgagagaact acagatgtta 360  
aaagatctac gatacatgca ctaactca 388

<210> 31202  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 31202

tgtacgcgac actatgcaat acataatcgg gagacgtaca aacactgact taaggagcta 60  
tgtgcgaact atgtacgcaa caataaatgt gaaattggag gcgatagtgc aagagaatga 120  
gaaaatgctg tggaatgcag agtctgagag agtgcttcca actacatatg acacaagcac 180  
agccagaggg cgatgactac 200

<210> 31203  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 31203

ctatacttta aatctttaat tcaggttacc aatggttgac aaattaaaaa atcttgaata 60  
attctaaact attgatatta aaaaatattt attggggaac taaatttgct agtaaattca 120  
catgaaattt taccctaatt ttcctaccac attattataa tattaataaa ttttacctac 180  
caatacatgt ccacaagaaa atcgtaagta ttttctggca ttatataccc tatagaaccg 240  
caagtatttc ctattgattt ctttcaa 267

<210> 31204  
<211> 462  
<212> DNA  
<213> Glycine max

<400> 31204

ctaacccttct agcgtacccg ctattggtgc tcagaaaatc ccaaattttt atttctctta 60  
 ttactagcta ttttgaattc tttagttcct gaatgtacaa ctttcaaatt gttgctcgtt 120  
 cccgtatatg tttcttgcaa aaaataaaat taatctgaaa caattcacgc tgaattgtta 180  
 tcgttattat tactcatacc ataaggaata acagctaacc aagtaattta aaatgtaact 240  
 cttaaattat gaggtatttt ttttaattaca attttacttc aatatctaata attgttaatc 300  
 tacttacgtc gttgtttaca tataaatatc aatatatagg tgatctactg ataataataa 360  
 gtactagcta atcacaaatt atgataccta tcattttaga ttataactca attctataaa 420  
 tattaataaa cttataataa gacaatcctt aacatgtgct gc 462

<210> 31205  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31205

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 nncaagggac cttcggcaag cagccngtta tttcaagggtt tttccctgga ttaagagcgt 120  
 tgataggcct ttgagccttg gttccctttc cttgttttga agctcactac cagccttaaa 180  
 tgaaaaccct gatattacca tatccctacg gaattttgga actttggaat tgtttgggaa 240  
 taagtggggg ggggttttgg ttcattggac aacttggttt cgtggctatg cttcataagt 300  
 attttgcccc tacttgatga cattgcatat ggctaaatgg tggacttctg aatgaaatgt 360  
 gttctcaacg ctaagagcaa aaaaacaaat cgaaaaaaaaa ttctaaaaaa aaaaaaaaaa 420  
 agcataaagt gatgaataaa cttaacgccc agaatagaaa cttggcttat ctctg 475

<210> 31206  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31206

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 tggatatgca gcggaagata aaggagaaaa gctgatagga ggcaccatcc actagggat 120

aagccatgga aaaaagagct tcaccaccaa gagagtgtct tggataagaa gattagagag 180  
gaagcttcat tggaggaaaa gaaagaaaga gaaaggtggg ggtgatgcaa tcctaccnc 240  
caagggcatt ggatagaaga ctccaagaag attgggacaa agatgcaaga gaatgcccta 300  
nggttctcat gaggcttang gcagatttcg ggcccatggg ctaagtatga gccacttat 360  
ctttgtatat attagactac gatgtcatta tatttgatcc ttgtatttag ggctccatat 420  
tgtagatagg gtaccctaga aatat 445

<210> 31207  
<211> 343  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31207

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tcaagcttat aatatatcga agacgcctac aattaaacat cggaagctct cgagaaattc 120  
gaatggctcat aattttccaa acggatgtcc gaatccggcg cataatatgt ctagacgctc 180  
gaaatcgaac aacgaaaact ctcgagacat tcatatggtc ataacttttc ctcggatgtc 240  
cgattcagac gtatcacata tagagacgct cgtanatgca catcggaagc tcttgtgaaa 300  
ttacatggtc ataactttta cacggatgtc cgattcaggc gca 343

<210> 31208  
<211> 508  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31208

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agcgcgcaca agcgatctac gcgtgtatca gaatcatgct atgtgctcgc gaatgggtccc 120  
cgatgtccct tcgcaacttg agttcattat tgctacccca tagagctccg cgaaatgaga 180  
agcggccata cttttacttg cgagccctct tgggctgttg atcaagggct gttgcggtaa 240  
gtgcattctc ttaccggaac cgggggcact cattccgaac gtgtgtaaca tccaaagtga 300  
acttctccgt ggcgagttat gcctttccta actcgatttt gagagcttgg acttncctgt 360

gatattcccc tgctataaaa atctcttcga tgacgacttt taacttggcg agccaatcta 420  
 aacctcgat gcgaactttc agccattcgt ggatgatgca agctccattg gagcttgtag 480  
 gactangatc ttcttcataa tggattcg 508

<210> 31209  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31209

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 acagggggcca aagatgcatg ggagatcctg aaaaccactc atgaaggaac ctccanagtg 120  
 aagatgtcca gattgcaact attggctaca aaattcgaaa atctgaagat gaaggaggaa 180  
 gaatgtattc atgacttcca catgaacatt cttgaaattg ccaatgcttg cactgccttg 240  
 ggagaaagga tgacagacga aaagctggtg agaaagatcc tcagatcctt gcctaagaga 300  
 tttgacatga aagtcactgc aatagaggag gccaagaca tttgccacat gagagtagat 360  
 gaactcattg gttccttcaa actttgagct aggactctcg atagggctga aag 413

<210> 31210  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31210

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 ccccatgaat gtcattgcct agcgctgttc atgtgtcctc caccttccag cttggtgcta 120  
 tatttcatga ttgcctaagt gcggaccctc aagtgcaatc ctccattctc ccccttcttt 180  
 ggagcccat gaatgttatt tctagcgggt gttcatgtgt cctccacctt cgaatttggg 240  
 gctatatttc atgattgcct aagtgcggac cctcaaggca atactccatt ctacacttt 300  
 cttggagccc catgaatgtc attgcct 327

<210> 31211  
 <211> 426

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31211  
  
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 ccactcggac ttccaaaata gcagattctg aatatgataa aaagaaagat ccacacatta 120  
 atattttaagt tttatagtta ttccaaccaa ctggggaaat ttagattcat catanataga 180  
 ttagtaggct aattttgcat atctgacctt gcagagtata taacagaatt tggggccgatg 240  
 tacttataca tganaaatgg gtaggaagaa actaaagata tggaaagcaa catcacctga 300  
 taaaggatatg tgattgactc aacggaagat cttctccaat ggcaacaagg atntgccatt 360  
 caacaagatc ctgaccaaca atcatttttg aacatggatg atcaacctgt attaacatcc 420  
 cccatg 426

<210> 31212  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31212  
  
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 gagatggntg atgaaaagtt gtctgatgaa attttacatc ttaattaaac cttacaatt 120  
 ttctcaccca acaaaacttt gtatgccctc cataaataat tttatgtgct gatccttact 180  
 ctgatcggt tgctattgga ggattttagt aatttaatta tatggcataa taaattaaaa 240  
 tgactataca tntgtttact tactcacaac tctgtatgga ttcaaagggtg aattttacta 300  
 tataattaaa taacttgga aaattacaga aggaaacatt cgaccacgta atttcatata 360  
 ataatcttca ccaaaatttt gtacacgttg atattgtcat tgcactaatt catttataaa 420  
 caatcaaatt 429

<210> 31213  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31213

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 tgcacacctg gacaatgaca cttgaactat ctgcaatatt acataacctc tcaactcaca 120  
 caaatcacc cagcaacaata tgactttcag cagcatacaa cctgatggag aatacctaac 180  
 tcaatgtcag ccttacacac acacagctgt cttcttcaaa tgtgtggcca acaacataca 240  
 tctcacatca c 251

<210> 31214  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31214

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 tatgggactt cacggtacga agtgaacgat gaagaacaca gtagttctga tgaaaactcc 120  
 aacaagggcc cccaacaaa ggttttgtgg tatcttccaa tcattccaag gtttaagcgt 180  
 ctttttgcta acgaggacga cgcanaanac cttacatggc atgcaaattg aaggatttct 240  
 gatggaatgg tccgtcatcc ggctgattgc tcccagtgga agaagattga tggtttgtat 300  
 ccggatttcg ggaatgagcc aagaaatctt agacttggac tagccagtga tggaattgaa 360  
 tcatatggca ccttaagcac tcaacatagt tcat 394

<210> 31215  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31215

ccccgctta ctttgtgang ctttgaacct tgggaaccag ctgcaccgg gagtcttaga 60  
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 cgccagtcca agaagaacta atcttccacg cccatgaccc caaggggtgg acgagttgcc 180  
 cgagtgtacg ctgaaaaata cgctagaaga aaggatgatca acttcttaca tcaagagcaa 240  
 caatgtggat ggaccgattt gctcttactt tgaacgggat tcaagaactt cctcgattgc 300  
 tagccaaggc ttaggcaatg gtggacacct acttcgccct cgatgagatg cacagacttc 360

tccggtattg gcagcatatg atagacttaa tgggccatan tattagaaac cactacgaag 420  
 tttgtattgg cactcagatc ttgactaatt ataactttct tgaaaaatga gttatccatg 480

<210> 31216  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31216

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 aaaaaaattg atttacagtc ctttaagcaaa attcttaagc agagtaaaca gaattatgga 120  
 aaaacgaaaa aaccaatggc atgaaatgct ttggaataga actctagatt gatcacactc 180  
 ttgtcccttc tcaactcccc anatttccat tttcatccca gacattaacg tgttctggat 240  
 tcatgacctt caacagcgta caccttaaag atgtaactta cttgttcttc tttccatctt 300  
 tttctgcttc ttgtttgaat tgcattgact gttcaagcaa tttcatcgta atcctctact 360  
 tctgctcgtc ttccaacaac ctcatttgct caggttcatt gttttcctct gagcttgctt 420  
 tcttgatctg caccaagcca tcaatacata aaa 453

<210> 31217  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31217

cgctgtttt aagctagtan nttcctttga tagtgacagc ggatatgacc acgttggaag 60  
 acgattccat taaaagacta ctaactaaaa agatcatgtg gaccacatta gtagaacagg 120  
 ggggtggcag gtgaaaacat atgcatgcct tactatttaa agtttacaat atggaatata 180  
 taattatgac aataaatata tgaaatacga gctactatgc ttatttattt atctgaagat 240  
 acctcgataa atttctaact ctaactgcaa gaggttattt ttaactcgcg atacaatgag 300  
 tttcaattga cccaaattga gacactacac acttgacat ccacaattct caaagatctt 360  
 ctctaagact ggaaagaaag cctctacttg gtgctgtatt atcaccacat gaca 414

<210> 31218  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31218

acaaccgaca cagcaagcgc anctgcagaa cacatttaac ttnannnnnta nnnnnnnnaa 60  
 gccgggggtg tgactccctg nannacgcga catatanaaa ctcaagctnt acnncggatn 120  
 nnnacagcac aaatcaaaca cacatactat atattccacc gcacacatac ccactagaga 180  
 aaaaaaccag atgaggacaa aactctatcc actcacacga aagaacaat aacacaagac 240  
 aaaatcgac acatcntata gaactaacta caagatatat cgccacacaa cggttatcaa 300  
 atattaaaag aaaaaaatga acataagata atcaaagaat ttacngaaag aaccaaaaac 360  
 gaaagagaac aatagccctt ccaaaaaagc caacaagaac tgcaatcaac ttacatattt 420  
 tctgcctaag aaaaaaactt aaacaatttc tcatctctta tcttcataca ctactaaata 480  
 tctctaactc tttaaactt caaagtgtca tacagggtcac tgcccacctc aatagaaaga 540  
 gacaagaatg actacgcgta gcag 564

<210> 31219  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 31219

agcttttgtt aatatattcg ttctgaactt atcttggat taattgtttc ttaaaaagga 60  
 agtgtacaca aataacattt taagaaaaaa aaacttttaa aaaacaactt ttaatgaaga 120  
 aaagtaaaaa taaaagaaaa agaaactgta gcaaaaagtt aatattatga tcttttactt 180  
 ctatttcttt ttttccaaat tataaaaaatt gaaggacaca caatttaaaa aattcaactt 240  
 aataagtaat ttctaactta aaagatattt ttattttcta tgtctatatt gttaaaaagt 300  
 aatttagtta aatgcattca aaatattttt tatattatta ttaaacttta aattgagata 360  
 ttaattaaaa cttgtgactt cttataatta ttacttta 398

<210> 31220  
 <211> 321  
 <212> DNA

<213> Glycine max

<400> 31220

atgatgtgat cctgcctaag agcggatcgc ttgatacatg ctacaaagaa ttggatgacg 60  
ccacttccca agatggaaga gaaagtatgg tagacgccac aatgattaac cttataagtc 120  
tgagattggg tcaacaagaa acccatagag aagctctcac caaatTTTat gaaaatgccc 180  
atacttatag tgtatctgaa caaacgata aaatagacat gggTcttcta aacagtttgt 240  
gccactatta caatttataa aaattattta tataaatata acatattggt atggccttca 300  
aataatctgg acttcaacac a 321

<210> 31221

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31221

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ccttgagaag ctttcttaag aagttagaac ttagctacac acacccctct aataactaag 120  
ctcacttctt taagaagttt ccttgagaaa cttccttgag aagcttctctt gagaagattc 180  
ctagagaagc tagaccttat ctacacacac ccctctaata gctaagctca cctcattgag 240  
atgagaagct agagccttag ctacacacat ccctacaat agctaaactc accccattcc 300  
aaaatacatg aaaatacaaa aaagtcctta ctacanagac tagtcaaaat atcttgaaat 360  
acaaggctaa aaccctatac tactagaatg gccaatatat g 401

<210> 31222

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31222

cttagagggc aaaattgaga aatgtgcac tactatatgt tttttatgnc gggaggattg 60  
agaaaaaaga tataggaata ggatcacaa gtatttgagg ccacattaag taaaataaat 120  
gtacactcat tatatgtttt tctatgttgc catgcacatg tgaatatctg tgattttcat 180

tcaaaataac tcactgacac tcatagtggc aatttagatg ctattaatcg gtaaaattaa 240  
 tttatctata gtaaattattg tctagaagac tgagtttgac ttgaatctgt aggattgaaa 300  
 cagattatct cctcacctga agagaccatg gatgatagtc atcaacaaaa agattctatg 360  
 gttggacctg aagataatac tcttcaacac gccaatagaa atactcatta tgaggagcaa 420  
 gcagaagcaa acaataatta catcaca 447

<210> 31223  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31223

acaaaaagaa gtggatcaga tgggtgtataa atcatgtagc gggcaccttc ctacaaggaa 60  
 aacgccctat atattaaaaa caccgtaaaa attagtgtcc atatttctac tgaaggctgc 120  
 aacaagccaa aggcttcttt aacaagcatc taaattttta atattggatg aaaacaattc 180  
 aacaaaaaat gcatctaata aataaagcga gcttcttcat ggtgtggtgt aaacacaata 240  
 tggatgtgag aaagtaattt cgatataaga aaataacgat aatgaattca gtatccagga 300  
 ttcttncagt agacttgatt aatagaaaag aataacaaga aaatgagaga agcgttcata 360  
 tggtaacaca ngcaggggac acagtaac 388

<210> 31224  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31224

tctctagcta ctcttcacct tctatcacca tttctatntt tgactatata gaaggctntt 60  
 gttggttact ttgttttcca caagaaagac ttttaagtaca cattctttgt cattttataa 120  
 tcaccaaccc aacaattggg taacttagat ggctngtttt ttcattctgtc aatctatcct 180  
 ttcgaaatat tgacgactgt gtttacagtg tgttttaaac aataattaag aaaccttgac 240  
 gctgaaattc tagtattaaa aatttaatac ttttgaagat aactgggtta gtgtttatag 300  
 gtgagggtct tccatatgtg gaaattacat tgagtttcaa ctaatatgag agacaggcat 360

gcattgcattgc aatccattaa aggggaatatg aatatcgga taaaacttat ctccctatta 420  
ttaanntatt ttcanaataa ttataatcaa cacat 455

<210> 31225  
<211> 498  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31225

cgccgaggcc atgaagcatt gtgacttccg tcgantccag ctccggaccg gggattctct 60  
agaggcggaac tgcaagcctg ccagcctaata ctcaaagtgt taggttaaca agccaateccc 120  
taagacttga actaatatat gccgggctaa ccagagaatt caacctgagc ctgcctccct 180  
tggaacacaa aacaaggtaa caaaggcctg agcaacactt ctacccccca cattcttcca 240  
attccattag gaatgaagaa aaaaaaattg aggttcgggg ttgcctccgg gaaacaattc 300  
tttcacggag acaatagttg gtgcctaagg gggcatataa gacataaaga acacatcatt 360  
cctctttctc ttcttaagta gaaacttcat gaagtcatgc atcatgcaat gacctccaac 420  
cattgcctag aagtgtcgtg agcaagcata aaacgattaa aatgatcact tctcaagcat 480  
ttcctgacat aaatgtgg 498

<210> 31226  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31226

ccaaccttca tacttgaatc ttgtgatgga agccctctct tgaaatgact ttatgagggt 60  
ttaaaccaga gcaaaaattg cttatggaaa tcatccctat gtatactctc aaatcgtgtt 120  
ggttatgcac gagctcgaat tacaagatct atgagtcctc gttgggcagc atgaggagct 180  
gtaactgcga gctcatgcac ggctttgctg gctcgtgtcg ttagtcctga atgagaaccc 240  
cagaatatan ctgcttatga caatataaac taactggtga tgacaccccc tgtcttcttc 300  
ccctactgat aacatcataa tata 324

<210> 31227

<211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31227

agctttataa gcgcggggtt gggatactaa ggtcaagtgt tcgcgatatg cgaagatgat 60  
 gtcccgagta ctttggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120  
 cgagtgggaag aacgccccgg catttacgca acgagcataa tgtaaacctt tacggtttta 180  
 aaagctctat agttgggcct aggctttaga gtttntcctt tgtaaggct ttgtgtcttt 240  
 tgtttttgaa ttataatac aaggatcttt ctccatctgt tcctatgtct ctaccattc 300  
 tcattcattt gcatgtntac ttcttntct gaaacggcag atccgatgac gagntccccg 360  
 aagggtactaa tacctgggac ccgcctatcg acttcgagca agaaatgaat canacggaag 420  
 atgaagg 427

<210> 31228  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 31228

tctttatttg aacgactgat atttgaattt aaggaaaaaa aaatagaagg gattaataag 60  
 aatattcctt caagggcact atcgtcgcag aaaaggagca catgtaggta tttggattat 120  
 cttttcctgt ctaaccagag tgcgctaagt tgcaccactt ttagttgaga taacgatcat 180  
 ttcaagactc ggcgttaatc tcatactgaa tccttcattg aaatatataa aagacgtctc 240  
 atgtccagaa tttttaggaa tgaagaatat taagtgaata tgatcaaaca tctctgaata 300  
 gaaactctat taaaatcatt ggacgatata ctatgcactt aagcacttca 350

<210> 31229  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31229

tttgttcctt tattnttcta tgcaaaagnt tctggtacat aactactaca attttgctgg 60

catggagcgg tgacctggtg atatgtgctg cttttgtcat acaatggcat tgttgatgac 120  
acatttgcac tgtaggctgt aacaatgtgc aagcgcatgt gttctcctct ttacataatc 180  
tggcattctt gtatgtttgc tgattgatga aaaccactta tacaacaaat gtggatggag 240  
tggatacata tatagatgta tgcctacct ttgtttagta ttgctctagc aaatctc 297

<210> 31230  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 31230

cactgccact gctgaatctt gattaccttg tgccacttgc atgaatgtat ttctatacct 60  
ataaaattat accttattaa aatggaaaaa ctttaatcac tatttccttc ttctaattatt 120  
tcttgagtaa agtatcaaata tagttcttta cttttggagg cgttgtcaat ttgaattctg 180  
aaacttaaaa aatgtcaaaa tgatcatoga ctctacattc cgtctgtcac attagcttct 240  
gccgttagta gtctcttaac actgttaata aatgtatgat gtggcacgtg aacgcatacc 300  
tggaactttt agatctaa 318

<210> 31231  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31231

agctnttcat attatactgc tgatcttttag ccaacacata attactagat ttctaacaat 60  
atacatcaaa tagttaacta gatatttgta tactttcttt ctggtggcag atgtgtgcta 120  
agacttgggg caagtgcctt ctctacctta aaatttattt tggaatatgc attattggtc 180  
cactaaatat tnttaatttc ccactaatca ataagttata taaacatgga aaaaaataa 240  
aatttttgta cctgtaaact acaagataaa aaattatatt attttgaacc ccagacctaa 300  
gaaacccct tactctnttg tctattctgc ttttggtatg tgagagtcac tgcctatgca 360  
tanaatttta ataagaaatc agttgtagat agtaacttct tgatttcnc tgtanaatat 420  
ttcacatt 428

<210> 31232  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31232  
  
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 acgacaatga catccccccg gaaatccggt ggtgacaacg acattgccac ggagatctat 120  
 tgacaatgac aacttctatg gcttaagcaa cttaaacatc acattgttca tccacagnnt 180  
 aatgggtaag tttgagccat cgtggagggtg atacatgaag acatgggtga tattgtgtgg 240  
 aacatcctga aattttctta t 261

<210> 31233  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31233  
  
 cttgattact ttaaagtta ttgacccct ccaaagtat attttatggg gactgaattt 60  
 tgataatttc cacaaacttc atttatgcta tcaactaaat ttccctcatt ggatcattct 120  
 aattttaact acacaaatga taaaatattg aagttcctgt tgttcagtaa tattttaag 180  
 ggaaagtta ataataatta aatacattag aaagtattta aatacgcagtg tgatgagtag 240  
 cttatattaa caatttttat ataaaagatt atattatctt ccggctatgt atgtcagaac 300  
 actcaattag ataacaaca caacaatg 328

<210> 31234  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31234  
  
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 actcctcacg tttggttttt tagggaaaaa caccataact aaacgcgcca caaggcatcc 120  
 ctatcgcacc agatccaaat ctacaacgat gggatgatcaa gaggagacac acgaacatat 180  
 gaaagccgac atgtcggctt tgaaagaaca gatggcttcc atgatggacg ccatgttatg 240

aatgaggcag ctcatggaga ataatgtggc caccgctgcc gctgtcagtt eggctgccga 300  
 agcagaccca actctcttgg gcaactgcgca ccatectccc tcaaacatag taggacggtg 360  
 aagggacaca ctgtggcatg atggcaaccc tcccctanga tacaaccgag eggcttacct 420  
 ttatggattg ccgcccact actcacc 447

<210> 31235  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31235

caggtttctgct agcttgtant gatttctctc caattgaagg gttcctctca gtgtgggggtt 60  
 tcaacggcgg tttgaggcaa ccaccaatgg ttgtgggtgg tggagaataa gcttgggaca 120  
 ttgggggaagg gttttgaaa aaagaaggag aaaggaatgg ttgctttcca aggctacacg 180  
 aaaaataaga cttgaaacac tcaagtgttt ctgctatcgg gaaaagaagc ttttctcaca 240  
 caccacaaga catatcgag atcgcaacgg ttagagccgt ggaaatatgc tctatgaacc 300  
 tccagaccaa atttcaataa gatccaacgg ttaacgaatg catgacggtg attt 354

<210> 31236  
 <211> 297  
 <212> DNA  
 <213> Glycine max  
 <400> 31236

ccttatcgac gattaacaac agcttttaat gaaaggcagg agaatgaatg cccccgaaa 60  
 ccattaactg gaaacgaagt tcatgattgg gtaaacgaca ttgtaaccgt gtttgggaag 120  
 tcccatttga agacatcatc togcaacaac atgtggaaga aacgcttaat attctttgat 180  
 cttccatact ggtctgatct acatgtgcgt cattgtctag atgttatgca tgtggagaaa 240  
 tatgtgtgtg atacgttaat tggctctctt cttaacatta aacggaatac aaatgat 297

<210> 31237  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31237

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atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120  
tttctacttg tatgttcgat tgactctggg aatatatcga aacgctcgaa attgaagacc 180  
gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtttga ttgagtcccg 240  
tactatatcg agacgctcgg acttgaatgc cgaagctctg cgcanattca aacgacaata 300  
acttttttcc tcggatgtct gattgagtcc cataatatat cgagacgctc ggacttgaat 360  
gccttagctc tgagcaaatt caaatgacaa taaatnttta ctcggatgtc taag 414

<210> 31238  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31238

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tgtctgacat ccgagtaaaa aagttattgt cgtttgaata tgctcagggc ttccgtaatc 120  
aatttcgagc gtctcaatat attacgggac tcagtcagac atccgagtaa aaagttattg 180  
tcgttggaat ttgctcaaag ctgtcgcatt caagtccgag cgtctcgata tattacggga 240  
ctcaatcaga catccganta aaaagttatt gtcatttgaa tttgctcata gctaacgcat 300  
tcaagtcga gcgctcgcgat atattatggg actcaatcag tcacccgagt aaaaaagcca 360  
ttgtcgtctg aatttgctca tagcttcggc attcaagtcc gagcgtctcg atatattacg 420  
ggactcaatc 430

<210> 31239  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 31239

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ccttagtaca tattcttgct aaacccaagg ttgcgccttg gtacatacct ctacagaact 120

cgagggtaccc cctcagtcg cttacatgta gcaactacaa tgaccatcgt caaggggtcca 180  
 agttcaacca aacgaactac caccacctta ttttgcaaga cttttaatta ggtcaaaaacc 240  
 acacctactc ctcataacca tcagagatct aaatgtagat caactctaata ttgttattgc 300  
 gatttgatta cttttttgtt tatgggtgcc tatgtacgaa ttcgagtgaa gaatatgttc 360  
 aattcacttg cattgtcata aaaccacat gtttaatatg gattataatg ac 412

<210> 31240  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 31240

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 gatggaaaaa cccatgctgt gactgccatt cttatacagc ccagtttccc accaacccaa 120  
 caatgtcatt actcagccaa tatcaaacct tctccttacc caacacccaa ttatccacaa 180  
 aggccatccc taaatcaacc acatagccta tctaccgcat ttccaatgac gaacaccacc 240  
 tttagcacat accaaaacac caaccaagat atgaattttg cagcgaatca gccctgagaa 300  
 ttcaccccaa ttcgggagtc ctatgctgac ttgctaccat atctacttga taattcaat 359

<210> 31241  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31241

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 gagagcttcc actaagcgca acactcatag gctaagtgcg aggaagactc tggaagaaga 120  
 tgagccatac aggttcgcta agcgtaccgc ttcattctac taagcacacc gcttttagttc 180  
 atttgctaag tgagaaaggc acgcgctaag ccaaaattca ctaatgtgcg ctaagcgcac 240  
 gagcacgaac aaggccacct atntaagcct tanatcagat tttagagagg gagtttggac 300  
 tgggattcag agctttgcat gtctagagat tctacagaga gaaagggtcca agtgctagag 360  
 agtnttgaga gattttgctg tgtgaagatc tgcagagact atagcttgaa caagagtc 418

<210> 31242  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 31242

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 atgagattgt aacagaaaca ctcggtaagc tgtcaactaa gttgtctatg ggtcaaccta 120  
 cacactcttc tatTTTgcag gttacagggt ataccatctg ggggtgaggct catgaaacaa 180  
 gccaatgtat tcccaactgaa gaaaacactc aataaattca ttatatggga aatcaacagc 240  
 gacaagggtat tactcaagga ggattTTTcag gcctccagca gggtccttat aatcaacaag 300  
 gacagtggag gacacaccct ggcaatcagt tcaataaaga ccagagtggg ccttcaaaca 360  
 ggccaatcca acaaggacat aacatattcc agaggactac taagctggag gagatcttga 420  
 tctcagttat gtaggtaaca atatcaaatac ata 453

<210> 31243  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31243

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 aatgcgtaac cattattnta gttatcctaa gtatagcaag caagaagtca atcaactntg 120  
 tgtggttttt gctaattgca tgtgttaccg tgcaactaat aaaacaaatc acaactcagt 180  
 gcgcattatt tcaaaagaaa gaaattaaca tctacatta atttaggtgc aatgtgccca 240  
 tcaccttggt ttgttatgaa gatgcatgta tgccccacag gatgtggtaa accattatgc 300  
 tatagagttt aggtgttgca catctgcttc aaatgttctt tnttcaagta tttgatcccc 360

<210> 31244  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31244

tccatcanag gtgcagatga cgatgttagt ctctggatgc taccagactc ttgagtctga 60

cggatagcaa ccaagacatt ttcgcagtct cggtcggaag acgctgacat ctctgagaaa 120  
 ggtgcagatg atgacgttag tcaactgcatg ctatcggact cttgattctg acggataaca 180  
 aatgagactt tttcgcagtc tcggccggaa gacgctgaca tctctgggaa aggtgcagat 240  
 gatgacatta gtcactgcat gctactagac ttttgagtct gacggatagc aaacgagact 300  
 ttnttgagct ctcggccgga agacgctgac atctccagga aaggtgtaga tgacgatgct 360  
 agtctctgcg tgtcaatggg ctgcttgcc tctagctgac aaaaggtacg gataaccata 420  
 aggtatctcc gcatatcat 439

<210> 31245  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31245

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 ggtgattttc caccatggag atgcagcgaa agacaaagaa gaagaggatga gaagaggcgc 120  
 catccactat ggaacaagcc atggaagaag gagcttcacc accaagatga gccttgata 180  
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagaagg 240  
 gggagcacga aattgaagga ataaaagagg gagagaagtga gaactttgaa gtgtgtctca 300  
 taagactttt attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactan 360  
 gtagcttctt tgagaagctn tcttaagaaa acttccttga 400

<210> 31246  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31246

tcttgcttct tgcataaca gctntgcact cttcttttct tattcttctt ggnatttgct 60  
 ccaaagtgtg tggatgactt ctcaactaac tacttgacca cttgaccac ctggatttca 120  
 aagtttttca gggctgattc agtactctta tggttggaca tggccacttg cataaactgg 180  
 gctattgtct cctccagttt ggtggctctc tgaaaaatat ttggcccttg ttgaggtggc 240

[illegible]

agcttggttc	atcatttatg	cgagacatag	accaacatgc	tagccatcat	cagcaagtac	60
caagaagaat	taaatctagt	cacgaccac	gaacataaag	tggcggacga	gtatgcccg	120
gtgtacgcgg	aaaaggaggc	taggggaagg	gtgatcgact	cgttacatca	agaggcaaca	180
atgtggatgg	accggtttgc	ttttactttg	aacgagagtc	aagaacttcc	ctgattacta	240
gccaaaggcca	aagcaatggc	ggacacctac	tccgccctg	aggagatcca	cggactcctc	300
agctattgtc	agcacatgat	aaacttaatg	gcccatataa	ttaggaactg	ctagaagttt	360
gtatttgcac	tcagatcttg	actagttata	actttttgaa	taacatgagt	ntatcccacg	420
tttttac						427

tacacttcaa	gcatacgggtg	tggcgtataa	cttctctctc	ggcaaagtga	tatggaaagg	60
ccttttggtg	ttaaatttat	gagggttttct	ttattgcctt	ttttttggca	aaaattgaag	120
cttcgtggtg	tttatgggtct	gaacagatca	agctgtaaat	tattaaactgt	attagctttc	180
ggtagtggtc	tctcccaaatt	ggttttacaat	tccatatattt	ntacaatgct	tgtctttgag	240
gccccaaattc	atttacattg	gattctatct	agactcatta	atatttttacg	ggagaaatgc	300
taccaacaca	tgtaacattc	tttatatcgg	tcgatatttg	ttgggatattg	ttcaacaatc	360

tt

362

<210> 31249  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 31249

gaagaagaag aagttctaga agatggttca aaaggtgtgg aaaaaggtat atcaaggtca 60  
taaaatgccca gtgaagggct tgcttttata gactcttcat ggctggtcaa gaaaaccatt 120  
gaaagaagta taaccttgag aaaatctaaa gaaaaccatt ggaagaagta catctcttga 180  
tttttattca aaacttggtca ctggtaatcg aataccaaaa ccatggaatc caatacacia 240  
agcttttttat gaaaagatat gactcttcac aatctaattt gaatttcaac gttcacatac 300  
actggtaatc gattaccaat atattggaat cgattacacc catttaaaaa 350

<210> 31250  
<211> 248  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31250

tcataataga tgactagaat cttctcatta tcccttcttt ccttgaagaa acatttggat 60  
gatttcttcc atctggatc attgngtgtt tctctacatc ttcctgatct ttctgcagaa 120  
taatgacana tcattctctg tagcttcttc atattcataa tcattcatcag aggaacntat 180  
cacactaact acttngatg atgctttang caatgatttg gatgatgaag gtttcttggg 240  
cttatgga 248

<210> 31251  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31251

cgctatcttg ngacgcttct atgaaggcta catgctcgat ctctgagcaa gtcctttaag 60  
gggaattgcc ccctctggag agccgcgacc tactataaca aaaaggtgag acaaggtccc 120

ttcccttagg cactccccgc gtataatgag gctgaccac aagattattc ttcgcttcta 180  
aagtgcgaat aggtgcctcc ttggaagcaa agaaagctgg gttttattta ataggggggc 240  
accccgaaact acacggaata cttcatgca caagagctac cttggactct gtgctataac 300  
agctgtctac cttccatgtg agcgcaagct ttacacgagc tgatatctat aactaggctc 360  
tcaccccttag aagactttga taatagactt tgcttaagaa cataacttn 408

<210> 31252  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31252

ntaactntta atctcagatt ctttggtttg actgagattc tttatttggg ttatgaaaag 60  
aattccctcc atataattca acgtttgaca cttttgattt gatttacttg agtttataaa 120  
aggctcatgc cacaaatttg tggcgctcgtc taatcatgtc tgaacatgca aacatgatgc 180  
atatgaaatc ttaatatccc aatcttattt ttctttgcag atatatgatg tatgcattct 240  
atgattcttt ttacatctt aaacttgata cgctctaagt attttggacc aatgtcaatt 300  
gtatatatct ttagcacttc tatgtgagat ccacaaatac gtttacttgt ggcatatatg 360  
acgtgcattc tttcatgaat 380

<210> 31253  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31253

tgttgcaagc tntttatgag acctactttt ggtgacttgt ttcaagagaa ggtattcttg 60  
gttacaaaca ctaaacacaa gggaccaaca ttccttaagt tcattgcaag aagcaagatt 120  
tgcttcttgg ttgatcactg gacacaaaag accaacgtct tttgggttca ttgcaagaag 180  
tggttataac ttcttggttg ttatcaatgg acacaaggga ccaacgttcc ttgggttca 240  
ttgcaagaag tgggaataac ttcttggttg taatcactga acacaaagga gggaagtctt 300  
ttgtggttca ttgcttgtaa aggaaattta caagatagtg gaaatctcaa gcgggttgct 360

tggngactgg acgt

374

<210> 31254  
<211> 456  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31254

ctattaaatt anatagacca gacttagact tattaattag ttgtatgagc cngataggcc 60  
tatatatatg tatatatata tatacataca tatatatcta tatatatata tatatatata 120  
tatatatact attttttggt ccaagaagac tctaateggg gtgagattga ctctcctttt 180  
cctttaactt gcctctcacg ttctactct ataaaatata aaatatttat cgtgaataat 240  
acttttaaaa aggctatcac tccacgctcg actcttaaag aggtcacacc cgacccaaac 300  
aagagtctct gataggctat angccagact cagccctca caaatcatcg tagactacgc 360  
tcagggtctt cacagtctgg cctgacctat tctcatccgc tattagaatg tgaattacac 420  
acactaaaat acactacttt cacactacac ggacta 456

<210> 31255  
<211> 370  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31255

agcttttctt ttgnttgatt ttcatacaac aacctgtctg gtttggcgcc tggtagcggt 60  
caattcagct acttcaatta cagctctttc ttgggaaacc ctgacctctg tggcccctat 120  
ttgggtgctt gcaaagatgg ggttgccaat ggcgcacacc aacctcatgt taaaggtctc 180  
tcctcttctt ttaagctgct acttggtgtt gggttgctac tatgttccat tgcttttgct 240  
tgggctgcaa tattcaaggc cgggtcactg aagaaggcca gtggggctcg tgcattggaag 300  
ttgactgcgt tcaacgtttg gacttcactt gcgatgatgt tttgcattgc ttgaaggagg 360  
ataatattat 370

<210> 31256  
<211> 434

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31256

tgtatgacat gagaaaatac tagtaaacia ttcttggtga tgggtttggc ttaccgttga 60  
gagatgttta aatagttatt aaataaaaaa aatttaaatt tttatttctt ataaatgtgt 120  
gtgaaaatgt gtgtccgttt aatctaatat taaactaaag acactctaaa tttttataac 180  
atcatctaata ttgggttaatt aaataaagtgt tgtgaattat tataagttnt ttatatttat 240  
ttttaattta tatgaataaa aataataata acattgtcac attaattctt acaactaata 300  
gaaatattaa ataagtctct tgaatattta ataaattctt aaatctaact attgatcatc 360  
attttaagtc ataaactata tgtaatatta tcattcaagt gatctttttt tgaaattgaa 420  
ctaattgtgat ttca 434

<210> 31257  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31257

agcttttctnt caggcgatgg gtagttntgg tgacacccaa atgccctccc aggggtgttg 60  
aatgatgttc agtgatgaca ctatgaagga atgggttata ctgattgagc cagattcgac 120  
ccttgaacag tatcagcccg tgaccgagag tatagtcagg atggtcatta gggttatcac 180  
gaatggcttg agcaaggcgt tggaactccg agttagagtc gagggattgc ttgatgtcac 240  
tgangaagtc aagctgggga aactaaaga cgagcaagga agcttcagga gatggagctc 300  
gggaaagagc atcagcgatc acgttagtgg cgccagactt atactgaatg gagtattcgt 360  
aacctagtag ctttgaaaga taatagtgtt gctctggtgt ctgtatga 408

<210> 31258  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31258

tgcanaccan atgctcacca ctgctagacg aaaagttctt tttgtggttc atataaacct 60  
 cctgctctaa atcaccatta agaaagattg gtttcacatc catttggtgc aactcaaggt 120  
 caaaatgaac aactaatgta aagataatac caagataacc tttattagat acaggagaaa 180  
 atgtctgtgt aattgattca ttctttttaa gtaaaccct tagcaatgag tcttgctta 240  
 tatctttcaa tgttgcttaa tgaatccctt ttggtcttaa agacctattt actgccaatg 300  
 gcctttgccc cattangcaa ctctacaagg tttcaaactc cgttactctg catgaaattc 360  
 atctcatcct tcatagcatc ataccatana tntgactctt tacaactcat ggcttgctca 420  
 naagtttcgg gatcattttc aactgcaata tta 453

<210> 31259  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31259

agcttttgca gttgttcac ctttttataa gcttctgcaa gtgcaaata cgattcccca 60  
 agcaaaagaa caagcttcca caacttatga tccaacttgg atgttggaag ccattctcgg 120  
 atgtcacaaa cttcaatata gtcagcatct ccacaggcac aaacagaaac attaaaagat 180  
 gatggtctat cacgattttc attgaattga tccatcacct ccggttcagt gctctgaagc 240  
 tgacgcatcc atctcagaga cttaatggcc tgtgaaacat gatgtacggc agctaacttg 300  
 gatgagattg gatcagcaac tgtctgaacc acaggtgtgg aaactggaca tacttcacaa 360  
 gccanagagc tatcatcagg atacaagct 389

<210> 31260  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 31260

tagcccaata atattgctaa caataatggg aatatctata tttcttactc cctccctaa 60  
 actatagttc acttagcatc acacttggtta caaagtatta aaatgtcgca acatctttaa 120  
 tgtatctcag aatattgtta agatcatatt gcaaggtagt aaagttgagt ctacattga 180  
 aagtttgga tttaatgtag gggttttttag gccttcacct tcatttttcc aactacaatt 240



agcatattag acacaacttt tatcatttgt gt

452

<210> 31263  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31263

tttagctttt acatgaagna actagctcgc ctaggtgagc tgagctcgcc taggcgagca 60  
tgttacttca ggcttaagcc accagctggc ctggacgagc tgggcggcaa gtcctctccc 120  
tattttggct ataaaagggc gtgggaggct gaaagaaagg gttcaacacc ttgggaaagc 180  
atatttcact tanaattatt gaaaagaagg agaaagaaga tgaaaatcaa ggtcgagggt 240  
aacacttctg taaccaaata cgtgaatgtt ctttgccatt cttcgtcccg tttcatcgg 300  
tcacgtcctt tcgaccggtt atgttttcaa ttttaagctt tgaattcatt ntattgcacc 360  
ttangngtcc attcttgctt tgtatgttnt catcttcac ttggctactt tcg 413

<210> 31264  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 31264

tattgggaaa gacactagtc ttagctggga tggtttgatt taaccattgc tgctaattgat 60  
gaatgggggg aagccaaaat tcaagtgtgt attatttaac taaaagagtt tctgtgcaag 120  
ccagtctttt gttctttatt tgcgattttg cttttatttc tttttctttt ttcttgcaat 180  
cttatgctag cttctctaga ctttgctttt aatcatagta tctcattatt gattttcttt 240  
ttcgtgatg ataattgoga gtggctatca atcattttac taaattcttg ctcagttgat 300  
gcagttctgt tctatctcat tatgtccctt cttgtccttc atttttcgca cgattataat 360  
ttataaatta attgcacat tgaccacta gaacaaccta tttttcatgg aaaatataag 420  
aatctgatca at 432

<210> 31265  
<211> 397  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 31265

agcttttggg caatctgagg agtgggtgtct tcatgctgta aattgatggg ttctggggtgg 60  
 aaaatcctaa tttgggtaag ccagaaattc tgcagcattt gcaaagcaaa ttcaaattaa 120  
 ttgaagttat gtacaagcac tgcagctttt acaaaaataa gcaactgcagc ttatttaagg 180  
 cagaaattct gcagcatctg cagtatgtgg gtggaaaaag ggtgggagtg gaactttaaa 240  
 tggagaagac actngtttga cagagagctt gagatgacag attgtttccg taatgatgtt 300  
 gctggcagca gtattcagat tcacaaaana agatgagtgg atctggaaaa tagaccctac 360  
 tggataatat tcggttaatta aaggagagac taaaaac 397

<210> 31266  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<400> 31266  
 tctagccaaa tggacttacc ttgattaatt cctttgtatc ccttttgagc cctgggtccc 60  
 tttcctttgt ttgaagctca ctacaagcct taagtgaaaa accatgatat caccatatcc 120  
 ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtggggggg tttgtttcat 180  
 tggacaactt ggttttattgg ctatgcttca tgatgtattt tgggccatac ttgatgtaca 240  
 ttgtatatgg gttaaagtgt ggacatgctg aatgaaatgt tgtttctcaa aggctataga 300  
 ataaaaaaaa aagaataaaa aaaaattcaa aaaaagaaaa ggaaaagcaa taaagttgag 360  
 tgaataagat cttaaattggc acaaactctt catggttaat tcttatcttt acttcttttt 420  
 attctcttat ctttttctta atatg 445

<210> 31267  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31267

tgcagcttgt tttcaaaacc tttgagagtg tgaccttaaa ctgtgagtga acggctagct 60

gtgagtaata atctttgcat gaatctctga attttagaat gaaatgtata aatgaggaca 120  
 tgatgaaggg catgattgta catacacaag ctctctaacc aaaaacctta ccttgaatga 180  
 taattgcac ctttgctccc tgtatangct gaatgatttt gtcatgaatt gaaccctgaa 240  
 cttaaataat tatctcctaa tacctttgtt agattctagg agaacatatg gttcaagaca 300  
 acattactct anatttgggg gagaaaagtn gaacagaatg aanagataga tgtaagcatc 360  
 agcacacaca ac 372

<210> 31268  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 31268

atatatatat gacacatcag atgaggataa aaaaactcaa tttaaatttat gattgtggta 60  
 tttcttccaa tagtttggtg tgagacaaat ctaaaatctc catcattacc atgcttgata 120  
 gctgctaaag aattgttgag gtaagcatgc ccatgcctac ttctatcagt ctaacatggt 180  
 gaaatgtcgg agcttcgtgc atcaagcaat cctctgggta tattttataa aagaatcagt 240  
 tctattacag aacagtataa ttgccacgaa tattctttct tgttttatg 289

<210> 31269  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 31269

attcttaata gaagacctta taaaaaaaaat taaaaaaaaa atctttatga actatggaga 60  
 aaaagaaaac taaatctaaa atatcttaaa gtgtgggggt ggctaataaa aggtaatatc 120  
 cctattaata agaaatgaaa aattgaaaaa aatggtaatt ggattttggt ggatattttt 180  
 tacataatac tacttataga ttcttagttt gtaattcaga agtaactgaa atttctaata 240  
 ttactattat gcaatctaga gatgttactt cctttgaaaa tctttttcct taacaaataa 300  
 atccgtaaat ctttatatgg ttgaaacaa actcccaaag cagtacacaa aaagttgatt 360  
 aagttattct tt 372

<210> 31270

<211> 450  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31270  
  
 ctaagcttct aaggaggtga gcttagttat gagaggggtg tgtgtatcta atctctagct 60  
 tctcaaggaa tctttctcca aaaagcttct caaggaagtt ttctcaagaa agcttctcaa 120  
 ggaagctacc tagtctataa ataaaaacat gtgtaacact tgttgtaact ttgatgaatg 180  
 agagtcttgt gagacacaac tcaaagttca atttctctcc ctttttcttc cttcaatttc 240  
 gtgctctccc ctctctcttt ctctccctct ttcttttctc ccattgaagc atcctctcca 300  
 agcttcttat ccaaggetca tcttggtgct gatgctcctt cttccatggc ttattcccta 360  
 gtggatggca cctcctctca cctcttctnc tttgtcttcc gctgcatctn catggtggaa 420  
 aatcaccatt aaaggatctc attgaagctc 450

<210> 31271  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31271  
  
 taagcttttt tgctcgnatt aagcgacga ncgggacaca ggtctagaca ctgaagactt 60  
 tggttgatct attgcgaaag caagaagcaa actcgttctt gacagagccc ttcttaaact 120  
 cacacaagct ttctgaatat ctcttgatca acttccaatc aattatggcc tttaaatacg 180  
 gtacaccgat atctaattat catcctaatac gatgacaata cactaaagag aagcctaatt 240  
 gatacgacca taactaacag ttatgctaag taataacaaa aatgatatcc ctaattataa 300  
 catcttatct g 311

<210> 31272  
 <211> 240  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31272  
  
 attcccagaa tgaacttggg acctttgccg acctatgcga gatacaaatt catccgatac 60

aactagacca catgccttat tatgcaaatt ctgtagcttg cgagttatat taataactaa 120  
 caaatccatg tggagaaatt atatacagca tagcctgaca ttgagacttg gattctgcgt 180  
 gatacacttt taccacgtga caactctaaa atggagcggt ctctttatca ccgcaagctg 240

<210> 31273  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <400> 31273

agcttattaa cagttgttgc aacaattata ctatcatttg aaaaaaaaaa tgtgaaatca 60  
 taggagcaaa attggaaacc ttaatgccat gaatcattat ttgtttaatt gattggaaat 120  
 catagataac agtatttcag taagacagta aatgagtaaa gagaaatatg tctttatctt 180  
 aatcctacgt ggaacctaat aaacacaaat agaaagacaa cacatcttac tatcaaaaca 240  
 atccatatga gaatttatta aactttttga tgaataacct tcgtttgatc ataacaattc 300  
 gtaatagtca tttttgagat attgataatt aattgtaata tcattcgact attcttagga 360  
 tcattgatta tacctataaa taatataaaa tttttttagt cgtcaatgat cct 413

<210> 31274  
 <211> 213  
 <212> DNA  
 <213> Glycine max  
 <400> 31274

ctatcagatt catccgcgcg agaatgcgaa tcgaaaaacc ctctttgtc cctctccctt 60  
 ctctcaaacc ctctccaga gggttttctt gacgcagccc aaatatcagt ttcgtcagcg 120  
 cgcgaaaggg gaagctccc attggatccc ttaccccaaa acatttctgc tggctcgtca 180  
 aaaccctaatt gaacccacg ggattgaaga ctc 213

<210> 31275  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31275

agcttttctc taaatttaaa atatgcatca aacattgcc aagaggtaca agttgatgat 60

tcattggctat ggaattgaag atttggccac ttcaacacac atgccttgaa gttgttacat 120  
 gagaagaaca tgatgagaga tcttccaagc ataaaggaga acaatgaagt gtgtgaagga 180  
 tgtctccttg gtaagcaaca ccgatttctt tacgcaacag gcggagcatg gagagcgaaa 240  
 gatctattgg agctgataca tacggacgtt tgtggaccaa tgaggacgcc atcacatgag 300  
 aacaacaagt acttcatact cttcattgat gacttctcta gaatgacatg ggtatattnt 360  
 ctaatagaaa aatcaaaagt ctttggagta ttcanaaagt t 401

<210> 31276  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31276

ttgtgccana atcccaactc accataaacc ttgacccggg atgagaattt ccatcgctgc 60  
 cctcggaaga aaacaaaaaa agaaaaagaa agttcccgat caaagatcgg aagaaaacaa 120  
 aaatagaaaa aagttcgcg tcaaagatcg gaagaaaaaa aaagttaccg atcaaagatc 180  
 ggaagaaacc accacttgaa gtggtcctct ccttttgatt gccaaccaaa atcttgtgca 240  
 ctagtgacat tctcgctccg cactaaacaa aaacagaaaa gggaaaggcc aaaacactca 300  
 gccaaatttc tcacaaaac accattcccg aaaatgtcct attgatccat gatcatgcat 360  
 gtaatctttg atttgatagg aaatgatttt canaatcaag tcatgacata tctatgggtt 420  
 ggaattagga taaaacactt gcctatgtga 450

<210> 31277  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 31277

tgtttaaadc attcaaataa tatagctcat tatctagcac taatttgctt atttaattaa 60  
 acacaggcat ttaagtcatt gttaaacaca ataaacttca atcatttatg attacgcatg 120  
 attacacttg cacttgta ca tatataagca ctcttctgaa agattaaacg tactgccgac 180  
 aaactaggcc ctctcccccac gacagaaact atcatgtggt ctacactcta aactatatag 240



<210> 31280  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31280

tgaatttgac aacagaagct ctgagaaatt caatgggtat tacttatcac acggaagtcc 60  
 gattcaggtg cataatata cgagaccctc gaaattgcac aacggaagcc cttaagaaag 120  
 acaaattggtg ataacttttc aaaccgaagt ccgattcagg tgcataatat atcgagaagc 180  
 ttgaaattga acaatggaag ctctcgagaa attcatatgg tcataactta tcacacggaa 240  
 gtccgattca ggcgcataat ataccgagac gctcgaaatn gcacaacgga agccctcaag 300  
 aaattcaagt ggtgataact tatcacacgg aagtgcgatt aaggcgcata atatatcgag 360  
 aagcttgata ttaacaacgg aatgtgtcga gatattcaaa tggtcataac ttatgacaca 420  
 gaagtccgat caggcgcata ata 443

<210> 31281  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31281

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 tggggaagga gatacccatc ttggccccct gctccacctc aaagatccgt cccacatga 180  
 actaccccaa ctgaacatag tccgcatat cccggcctca cccacacccg taaaaggatc 240  
 tgttcccttt gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300  
 cgagggcctt ggcaattacc cattctcgga tttggcagat ttatgtcttg tgcccaacat 360  
 cgtcatccct cccaagttca nagtaccaga ctntgataag tacanaggga cgacat 416

<210> 31282  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31282

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attcaattaa agtactaagg ataacaaagt tgatgggggc aacatttgag ttgctagaaa 180  
agacaacaaa aacatcaaga acctcctttt tcaactgaaga atcttcattt gaggtgtag 240  
cctacttgga cgcaggttca agttgacata ttaaaataac ctcaacaacc ttggctgcat 300  
tggactcaac ttgttcgtta actttttgca ttacaccaga gattgagaga tcaataagaa 360  
cacatcaaat atatgatgtg gcaatgaggt gtagcaagca aatgctca 408

<210> 31283  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31283

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gtcttggagg gcaattaggc ctttgttctg gattttatgt catgatcctg acatgtaagt 180  
gtatcgtgtt tgagctccaa ttataagctc aacaagcttt gctgtaacat acattggaaa 240  
aacagatcag atgcttaaag tagtctatca agctganatg atgatgacaa gaaagtaagg 300  
cactaaaagg gaaacaaagc aaacaaataa gtatgaagct cacctgtgag aaatcccatg 360  
acaggtatag gttccanaac tttctcagtg ctttcaagtc tttgcctaaa aca 413

<210> 31284  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 31284

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cattcaatga aatggagggtg ttattgatac caatgccac agtattttgt ttctcaagc 120  
gagattagct ctatcttgct tcgttcaata taccttcttt ttgatagcga aaaagacttg 180

atggtcgaat ctaattacca ctcacaactt aggcaaaact ttacgtagaa atgagttatc 240  
ctaaaatata aaccataaac caaaagaccg gatcagagaa cattcagact gctattcaaa 300  
ctcatacatt taaatgtacc ttgtcaagac ttcatgaaca taagaaacgg taaaccgaat 360  
aaagtactga aattggctgt aaagtttaac acaggactat cttgcctaca tattttctgc 420  
t 421

<210> 31285  
<211> 378  
<212> DNA  
<213> Glycine max  
<400> 31285

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gaggttggat caaatggaga atagagatca taatgaagaa gaaaggagga gaagagggaa 120  
tgatggtgtt cctagacaaa accgaattga tggattaaa ctcaacattc ctccatttaa 180  
aggaaagaat gatccggagg cctacttga gtgggagatg aaaatagagc atgttttctc 240  
atgccacaac tatgaggagg accagaaggt gaagcttgcc gccacggagt ttccgacta 300  
tgctcttggt tgggtgaaca agctacaaaa ggagagagca agaaatgaag agccaatggt 360  
tgatacatgg acggagat 378

<210> 31286  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31286

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gaccatttga atatcttgag atcttccgat gtttaatttc gagcgtatcg atatattata 180  
agcctgaatt ggacatccgg gtgaaaagtt atgaccattt gaatttgcca gagtttccga 240  
tngttaattt cgagcgtatc gatataattat acgcctgaat cggacattcg tgtgaaaagg 300  
tatgaccatt tgaatttctc aagagcttcg ggtgttcaat ttctagactc tcgacatatt 360  
atgcgccccga atcggacatt cgtgtaaaag ctatgacat ttga 404

<210> 31287  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31287  
  
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 tttgcaaggg actttgtcat atacaatggc tctagtttca accacattga ggttggtgtc 180  
 ctttctcttg caacttctct tanagcttta tctccaagca atagaatgat tgcacttcgg 240  
 gatttagcaa tcatctctga tttctccttt gagcttagag attcaaacat ctttctctct 300  
 cctttaagag cttctgcata gccatgttga atcaagattg cttccatctt gattctccat 360  
 aaccggaagt cattttccct tanaacttct caatatcgta c 401

<210> 31288  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31288  
  
 ctatagaata ctaagctctg tccctcacgt attgaaggca ctttntttgc tctccttttg 60  
 tcaatngata atgggtggact tctcttagca tcatgggggtg gtggctttgt tctccacatg 120  
 ctcaggatca caaaaacaaa gtttgataac atttggttgg cgattttgat ccgcaacatt 180  
 ttaaggattg ctccactttg gctcctgttt ttgggtgecta gagctgaccg cagctcttca 240  
 attcttccat gtaaaagcat gaattcagag gtggctatcg acccttcaga caccaaaaat 300  
 gttgaattgg tgtcccttgt acacagtgtt gatggtaaatt agtggaatga aaagacattc 360  
 ttttgattc tcaattccaa atacacgaaa ttaccaagcc agtgtagaat taaacgtgca 420  
 atttgtttgg atttaatgtg gaaaaaaaaat aagat 455

<210> 31289  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31289

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caatagaggc agtggcaccg agtactcacc agactctcgg aaaagcaa atagacatcgct 180  
ctgggtcaaag aattctactc aaacatctat gacccaaagg atggagctcc aaaatattgc 240  
aagggtgcggg ggcattgtgat caagttcaat gcagagacca ttaatgattt cttgaacacc 300  
ctgggtcgtcc ttgggtgacag agaggaacan ttggcatact cctagtactt gcacacatac 360  
ccagaccacc aagcgattgc ggaaccttat gcacacccgg a 401

<210> 31290  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31290

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gacggaggta gacgaccgtg aatcataaaa aaaaaaatg agagaaaaat atatatgaat 180  
tgtaaaaaac caataatcga aaatatgcag aattggaacc ttgagaacga caaagggaga 240  
tgctgtggtaa caaatcaagg ttttcaacaa agaattttta gacgggtggg atgtgggagg 300  
ctgaaatcaa aggcacgtga ttgagtaaaa ttttttaatt agaattatta gattaanatt 360  
agatcaatgc ataaggattt atgtaactct cttagaatta tatatactgg aatttaatcc 420  
ctttctcata tatattggta acaaaacgta ttgtaa 456

<210> 31291  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31291

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aatagcgacc gaaatgaaat accaatacca cacatccaat tagaaaaaat aataaccggc 120  
 cctaantaa taccctgatt tctcaatatt tattatttaa gcggcgggac cctttatata 180  
 cagtttaatt cggccgccag ctttgctgct tctttcgtct ccgatcattc ccgtacgtcc 240  
 tttgcagttg actctcattc tctttctctc tctacacctc tctctctctc tctc 294

<210> 31292  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31292

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 ccaaattaat catatataat aactagggtca caaaaactac gcaagtggta acaactcaat 120  
 caacttagaa catgtttgac aatcaagtgg aaaacaactt ttgagacaaa aatatttttg 180  
 caaaagaata aatgcatgtt tggacccaag ttagaaatga tgtacacatg ttacaatgca 240  
 cattcaatag ataaaaacaa aaacaacaat cttgatcttt tagtaaaaat actctttctt 300  
 taaaagtatt ttttcacctc attgtcaaac atgtacttag aatctcttgt ttttctttca 360  
 ttttggtttt acctatttcg atatatacta gagcacactt gttgtaacaa t 411

<210> 31293  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31293

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 caaactctta aatatcatgc accaagctgg aacaagggca aaaggctagg caatccttgg 120  
 ctaacaagtc aatagcagat tgagaatcag attttactat aagaaactta aagccacgac 180  
 tccaagaaat ctttactcca atgaggatcg ccataattt agcattgatt acagaacaat 240  
 tccaatatt aactgagaat gagaaaatta catttcccat atgattgtga agtaagccac 300  
 caacaaaaac tataaaaatc acttttggat ccatacaat taagcttaaa atggtcacaa 360  
 tgcggttgct ccnaaaaaat attgntctaa ttattatcct gatcactacc attccctc 418

<210> 31294  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31294

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 gttgtgctac agattaagtt ggacaaggaa aagaaaagtc tctcaattcg agagagaggg 180  
 atcgggatga ccaaggagga tttggataag aatctgggga cgatagcaaa atttggaact 240  
 tctgggatgt atgttgcgga cattatcgct gaagtaattt ttgtttgtga tgtgactggg 300  
 aatatgttaa ttggagatgt gtgttatttc aacatttggt gagaagatgc caacaagtgg 360  
 agatctcaat ctgattgctc agtttggagt cagcttctac tctgttatct tgtggccgac 420  
 tat 423

<210> 31295  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 31295

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 ggccaagtcc agagagtttg agagatttgc tatggaagac ctgagagaac cgagcttgaa 120  
 gaggaagctg cctgagaact tagatgagtt gtgaggattg gaagttctaa gtggacagac 180  
 atcccaccac tttattcttc atccttctct cttatctctt tttgaaagga agcttccagt 240  
 atgggaggta atctctgtgg tcttcttgaa gacttgagac atactgatat ctattaatgt 300  
 gtttgtgggc ctatgcttaa cctcttctcc tgctttcttg atcogtgatg ctggttttga 360  
 gagcattgct tggg 374

<210> 31296  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 31296

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 gcttacctac acccacctct ctaatagcta agctcacctc cctgagatga gaagctaaag 180  
 cttagctact caccctctat actagataag ctcacccctca ttccacaaat acatgacaat 240  
 accacataaa agtccttact actcagacta ctcataatgc cctgaaatac acgggctaaca 300  
 tcctatacta ctagaatggc caaaatacca tgcccaatag aaggagcaac ctattctaac 360  
 atatacaaaa aaagagtgga ccaaccttga cccatgtcgt ctaatatcta c 411

<210> 31297  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 31297  
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 gtagacggag gcagaccacc gtgaatcata aaagaaaaaa atgacagaac aacatatagg 180  
 aatcgtgaaa aaccaacagt cgaaaatatg ctcaatcgga accttgaaaa cgacacaggg 240  
 agatgcctgg gaacaaatca aggttttcaa caaagaatct cacgacggag gggatgtggg 300  
 aggctgaaat cagaggcacg tgattgagca aaatagtcca actataatta ttagagtaaa 360  
 accagagcaa tgcataagga tctatgcaac tctcttacia tcatatatac atgaat 416

<210> 31298  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31298

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 attattatca caaaataatt tcaattactt tatgaataat atcgtaatta aattagtttt 120  
 atttttttta tagtaaagat tacaaatatt attcccgagc gataatccta ctcgagatta 180  
 ttttgtgtga naaaaatcaa ttagaaaaca taatatcatg aattaaacaa tcttagtttt 240

catagaacca aaaattatca ttacgaaga caatcatact caaaattatt gtggatagca 300  
aagttctatt ctattataaa ataattctaa attacttatt caataatata atagagtaca 360  
ttagttgtaa ttcttttatg atgtagacca taaatatact tcgcgggagg caccaact 418

<210> 31299  
<211> 486  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31299

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gacactgcaa tggcactcct ctcttttctt attgacctg tagaccataa tcttttcgcg 180  
ttcacgtttg tggaggacac gtaattcaac tctgcctttt tctaatacaa ccctgcattt 240  
ttccccggcc aacaccccat tcccatagac tgaaggcatg caaccacta gctgttcata 300  
tgacaacact ggccaagtgt ctaccatatg gagatcattc tctctcaaca tgggaggagc 360  
tacttgtgcc ccaactcctc cattgctgag catattatca aggtcacgc cttttcctaa 420  
aatattctga ctcgatacgg caggaccaca tctaatacgc cgatactgcc tatgacgccg 480  
atatct 486

<210> 31300  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31300

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aagattgcat cttgagtggg gagttctaga aggttctctt ttgttgggtc atatgtgtga 120  
tcacgaagaa tggcatgata actagctacc atgntttcta tgagttccat tgcctcctcc 180  
ggtgtcttta gcttgatatt cctcctgcg gatgcatcta gtaattgctt tgattgtggt 240  
cgcatgccat ctatgaagat gtttagttgc accggttcac tctacccatg tgtaggtggt 300  
ctccttagca gtccgtggaa acggtcgagc gcctcgctaa gggattcatc gagaaattga 360

tggaaggaag agatttcctt cttgccttca cagtctttga ttctg

405

<210> 31301  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31301

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aatggcaaca aacttgagca atccttgagc tttcaagatc atgacaaacg aaagacaaat 120  
tgaagctgtc ttctgaatcc agaagcccta caatcaataa gacaaggagt gagtttcaca 180  
tttgaaatca ctaaactatg tcaaacgaag atttgattat gtcaaacgaa aatttggtat 240  
tcaagtttca tactcctttc tctactgtct ctgatagtat aatacacatt tattatcaat 300  
ctatggacac cattctgtct tagcgttgtc agatatcagc ttttgcgctt tatttaataa 360  
acatgccaca tatgtgatgt gaactaaaat atgtcaca 398

<210> 31302  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31302

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gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacctc attaaagctc aaagatccag cctccataga agccccacaa 180  
gtttttgtca agaggagaaa gggaagaaac aaaagaattc tcaggcggtt agtcatttga 240  
atcttttggc aagagaaaga agtgaatgaa gaagaagagt agcacaagtt tttgaacaac 300  
gaacttttct tggaagagaa agtattgaac aaaanatcta tganagaaat ctgttgatca 360  
tnaaaacaaa tcaatctttt agaatanag gaatcagtct 400

<210> 31303  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 31303

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acgagacatc ttgccaaaca aagtcagggt cagcataact cgcccgctgt tttcttcca 120

tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180

aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240

cttgattgtg catctgggtca gagaaatcaa atgttgtggc cctatttacc tatgggtggat 300

gtacccgggt gagcgatata tgaagatctt aaaagggtat acaaagaatc tatatcgctc 360

ggaagcatct attgttgaga ggtacattgc agaaaaacca ttgaatt 407

<210> 31304

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31304

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aaacattggc catggtgaac atgcaatttc aaacttctta agacaatcat cgaactgac 120

cttgaagga caataaacca aactccccca ggcattcata acataatctt atgcattttg 180

tgaccaacca nggatttaca tcttgacat tcttgtaaat gtgaaaccta cacaacaagt 240

gggtacactc anganatata gttttcactg cattcattaa tgctagaatt ttatcggtag 300

caataactcc aaagagggca tcatgtctaa gaaaaagact tcgaaaccgt tctatagccc 360

acaccacatt atttagacgt tct 383

<210> 31305

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31305

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cttatcacc atactcggcaa ttagaaaagc ttttaatgga agctaggaga atgaaagtac 120

actgaaaccc ttatgctgaa acaaaaatta tgattgggtg aaagatatcg taagtatctt 180

tgggaagacc ccaaagaagg aatcatttga gaagaacata tggaagaaaa ggtcaatatt 240  
 ctttgatctt ccatactggt ctgatttaga tgtacggcaa tgtaaagaca taatgcatgt 300  
 caatattctt tgaagtcattg atttccatac tgcattagag gctgtcgtcc catgtgacag 360  
 gcgcgtggga tgctaatacc ttncctgtgc gtaaaaaatt ccgaaccctc attttcaaga 420  
 tatgcagacc ttcgtc 436

<210> 31306  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31306

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 tcagaagcct cgagttccgc catgtattcc atggcaaaat aaagacttct ggtaaaagaa 240  
 acaaactttt ccattttgga gatgatcttt ggggtgtttc gagcacgta actaagctng 300  
 cggaggctga tgaggcctag cttgaggctg gcgtacacga tgtccaagcg gctgaagctg 360  
 gggtcggagc atttccggcc gaaccgtgag acagtgtctg 400

<210> 31307  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31307

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 aggggaagtt tctttaatgt ttgtctttat tataaaatga ctttcgttct tagctaacct 180  
 cttggaggag acacttacct ccttatactc ctccttaacc attaattggt gtcattcttc 240  
 ttgggggtag atttattcac tagattcttc cctttttgct tcttcacttg cactagagga 300  
 agatgaagaa gtagtctcat cttggctact ataaatgtct tggctcctca taatcatggc 360

tttcttggtg gggcattgaa agtaatgtgt cctttccaag acatttanag cactttat 418

<210> 31308  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31308

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gatgtgtttg atttagaaga agaaaataga agataattgt aaaattcaag tagagcgtaa 180  
aagacatgaa ttccgtgtga agaatacaca attttctttt atttcttcat tcccacccta 240  
atccaaacat cacctcttgg ccttgcactt taaagcgta tatcaaattt aaagtgtcgt 300  
gatcaaagca tgaacacacg atgttttgag gggttatgtg actgtttact aactttcaat 360  
gtgattacta cttaaaataa gaaatgttct cttcaaacat gtgggtggat ngatatctatt 420  
gatagat 427

<210> 31309  
<211> 448  
<212> DNA  
<213> Glycine max  
<400> 31309

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cgatgatatt agaaaaacgg ttagtttcat gccttcacca caccactctt ttctttgatt 120  
attgtagata tgtttaggtt tgcgggggta tgaaaaagat cttttttttt ttgcttact 180  
agtgatggat ttctgatgcc cccacttgga atattatgga atggtaaaat gtaaagatgg 240  
tagctttggc taactttgat ggattcctga aaccctctt ttggtatttg tacatggtaa 300  
cgttgttggg attggaacat tgtcattcgg tggaaagagg gtccaaaatt gtctggggta 360  
tgtatgcact ctggaatgcg tgttttgaat ttttttcta tgggcttatg ggtcctgaat 420  
tgttggctctg cgttacttat catttgat 448

<210> 31310  
<211> 380

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31310

gtcacaatcg gcagagtatt gagcggcacc accaactcga ccacctatga agatgattaa 60  
ataaaaaaga attggatata ttgggaatta ttaagaaagg aagagagaga aaagactgac 120  
tagaattgcy atgatgtttg aaaccaatag agaagtgaag ccaagtctta gtgattttgt 180  
gccacaatc cattgagagg agagttatgt gaaggaaggg attatggata tatataattg 240  
gcaccgaaac ctggaacacg ttgntgatg gatgtgcaa gcgtctcgtg gtggtggcaa 300  
tacttactag tactatatat gatagatcga tagaatggtg gcttggatat ctgagtttac 360  
acttgtctcc ttttcgtatc 380

<210> 31311  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31311

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tctctttcat tgcgatattg atttcttctt tgctctttct ccattaattg cttatatatg 120  
gcattcatat tgtgttgcaa attttcgcca gactccatga aatctggggg gaatgaatgc 180  
atataggagg tcaaactact gaatttttgc tctctccgc tacnggtcat acgttgaat 240  
tgtccataat aaaaaaattg atccaagaca ataatatgtt acgataatng tatgtgacaa 300  
tatggtgtgc gtgtgtttgg ggcgaatctg caatgtgagg aataagtga ccctgtcttt 360  
aacatatagg cagggttgga ctacctaagt gtgttgctgg agatgt 406

<210> 31312  
<211> 568  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31312

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nnnaagcggc gggttgatgc ctgctancac ngacacacac aanactcaag ctggcgcgtc 120  
 tntctctctt tgggtgaggca cacggcaaat ttttactggg gtattgtaat aacaactcaa 180  
 tgggcgcatt accaggggtga tgcaaagtat aaaatctgaa tgtaaaatca ttcgaaaaac 240  
 atgggaagag gccttgcatc cttgcgccta tgaacaaaag gaaaggatca ctctacttgc 300  
 tttggcggaa aatcccactt tggatatcaag cctaaactct ttgaaggcta actcaaagag 360  
 gaagctctca gtatctgttg agtctaatac agagagatca aaatggggtt atatatatc 420  
 caagagagaa tatgctacca ttaaccccan ccttggtgat gtaattctta accctgtgta 480  
 acgcattaaa ctaatatgaa tacttcaatg taatcattcc ctttacctca atgcggatgc 540  
 taagagtaat tcatgtaaca tcgaaatt 568

<210> 31313  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31313

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 tgcgaactga accgaagttg tgtttcgggc gactggcatg ttctcatttt gtcggccaag 120  
 aaaacattag cccaccttgg cataaaaaac atgattcacc gatattgaca ggaaaagaaa 180  
 aatgctagcc gacgtcggcc aggaaagatg accgaccgat gtctgaanaa gaagcatgac 240  
 cggatgactc cggtcgaaca tttcctaaca gatatcatcc aagtattatt cagggattga 300  
 atagaacaaa caatagccga catcggtagc taaatagccg tgactgatat ttttcggccg 360  
 acattgcgca atntctttta c 381

<210> 31314  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31314

tcgctcatcc tcttccatcg actctaagta gcacacaatt tggacgatat ttcnnttnan 60  
 nnnnncgcgg gcggnttgat gcctccttgg acanncca ca tanaananac aagctncacc 120

tgcggccata tgcagcgcgc ttaaccaaca cactcttttt atatttgatg gctacggact 180  
 cgaactcctc ttcgactaac ccggctcttt caagctctgg ctttaaggct tggacctcat 240  
 cactctcttc cgaagctcta accacaccgt atctcacagc ctctagatct gggagccaat 300  
 ccaatecttg tgtgtcgact ctcatccacc tatgaaagcc gccgacgac ccaacacctg 360  
 cttcccctaa gcctcttgtc ctttcttcac gccgcatccc atgccttgcc aactccttgg 420  
 agcacccctc cgtttgggtc actgaaacca catgcaagaa atggacgatg cctccgtctg 480  
 atggcacttc cctcatggcg tagccaagct gcctattgcg aggaccgcat tatattaaca 540  
 caacccccag tgcccatcac gagacg 566

<210> 31315  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31315

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 tggcagtgat attattgacc agccctccga aaccttctac cgagatgtct tgggccacat 120  
 gggcctcggt caaaaccttc actagcagag cccgatgagg ctgagagctc atgagtaact 180  
 ccaacaacga gacctggcc ggagttttgt tgagctgttc gataaccttg aattcgctct 240  
 actgaattat acggaggaac tcaactgggt tctctagtga cacctnnctt tttaccatcc 300  
 tttntctccg ggaggccttn tgccggaata tctttattcg aagcgtgggg tgcttcgcca 360  
 tcttggtcct tcaccactat tccttttccc 390

<210> 31316  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31316

tactaagctg aaatgacatc gaagctctcg acaattccaa ggtataatan tgcacacgga 60  
 aggtcgattc tagcgcatca catatcgaga cgctctaaat tgaaaaccgg aagctctcga 120  
 gaaactcaac aagtcataaa ctagtcacac ggaagtccga ttccggcgca taatatatcg 180

agacgctcga aattgaacca cacatgctct cgaagaattc caatgatcat aacttttctc 240  
acagaaatcc gattctggcg catcatatat cgagatggtc tgaattg 287

<210> 31317  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31317

agcttatata accaccgtgc tccaccacgc tcatcgagta actcatccac cgtgggtatg 60  
gggaagcgat cgcgcaccgt gatggcattg agagccctat agtctacaca aaatctccat 120  
gatccatctt tctttcttac cagcaagact ggggatgaaa atggactcga gctaggttgt 180  
ataaaacctt tcgcgagcat agtagctacc tgttcttcga tctccttctt ctgaaagtaa 240  
ggatatctat atgggtctaac cgttcacccg gttgagttag gcaatagatt gatggtatga 300  
tctgtggatc gtgatgggtg canggtcgtg ggaggttgga agagggaagc gtatntgggtg 360  
atcaatgtat tga 373

<210> 31318  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 31318

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ttagaaatga aaaactcata agaagataag attaataaaa aaaatgcacc cttgatttgg 120  
atttatgatg aaatgacatt gttttataga taaatattaa ttggtagcat tattagcttt 180  
tgctagcgaa gaaagtaaac ccataatctc ttctctgtcc attctccatg gatcatggga 240  
caactttata tctcattctt tctgatagta cataaaccct tgatgtgtga ttattataag 300  
cacgatatat aaggtgcagg gaaattacta ctcatcttgg cttgatactg acatgat 357

<210> 31319  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31319

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tagagtttat ctattttatc ttagtgagag tgatcctcct aagttcttga gtgattcgag 120

aacaccctga ctatatcaaa ggactttcac aatctttgtg tgttgccctc accggaaaga 180

gtgattcttt cctttctttc atcttcaacc ttgttctttc aaaccataat tccagaaaat 240

ccacttttgc ctagaattaa ctcggtggcca taactcccat ttacacgctc aaattaagtg 300

attcttgagc ctaaattgaa tntcaaaatg agatctttca gctcgttntg gaatcacctc 360

atttgagacc ctggagcttg agttattggc atttctata 399

<210> 31320

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31320

tgccagaata atggggttga tacagattat tctgctattg ttggttatct tgagaagcct 60

tttgagtctc actagattct actctgcagg ctttttcgct cacaatgaag gcatatgcc 120

acacttctac aatgtgaggg atgtttctga tggttttgat gtcaaatac tctctgatag 180

agttggagaa gtgatagaca agttggaaac tttgcaggcc aagcttgact caaaagtga 240

agaaatggat aaaaacaaag gcacctagtt ggacaagaag tttttaaagg atcaaatagt 300

tatgccatct tataatgcta atgttgctct aatgcgggat agggttcccg aaggatga 360

agggatgaag tccgcagtga aaaacgatca tgtgatcaat tntttcatca ctg 413

<210> 31321

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31321

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tgatgatctt agtctatttg taaaaagatt caacaaattt ctaagagtca gaggaatca 120

aagaaaaggg cagaagattc atcctctact ccaaaatggt atgaatgcaa tcaacctaga 180

catctaagga ttgattgccc aattttcaag aaaagaatag agaaatttga aaaaaaagtt 240  
 tttaatgaaa agaaggctaa gaaggcctac attacatggg atgacaatga tatggactca 300  
 tctgaagatt cagaanacga agttgtaaat ctgagtctga tggccaacaa ttatgaaaac 360  
 gatgaagagg taacatcttc tgataacaac ttatccattc gcatttgatg aatac 415

<210> 31322  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 31322

ctgataccac tgggtggagta tcttctgtat atggatatat actttgtaaa gaaaaaaaaa 60  
 tatagtgtat gaaagaatag tgtcaatatt ttattcatgg actctatata tatagataaa 120  
 aaaaatgtaa caaaatttaa atattatcaa attattaatc tcctaaatct aaaagatacg 180  
 tcaaattctt atctttatct aaacaaattc ataataattc tatattaaat aatattctca 240  
 acgcttgaaa taaataataa attattaaaa aataaataaa ttactccttt gtaaagatat 300  
 catacatatt tcaataactt taaacaagaa tttggattac gatcttgtag ataaaaaaat 360  
 gattaaaaag gaagactcta cacaagataa ttaatcaagt tgtttgaaat taattatcaa 420  
 caatgtccgt ggatactccg tcacaataac a 451

<210> 31323  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31323

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 ctgcagaaca aacaagcgta tgaagcgctc aacacacggt gattcttctt ctgctaactc 120  
 tcttcttctg tccactccta gcgccagttc aaaccctcct tcgcaacccc acatcgataa 180  
 tattattggt tctggctccg ccacaaacca tataaataat atcaaccctt tgctttatgg 240  
 tggcgatgtg atgaataatg ttccctttctc aaagttaaataa cttcttcagt ctcagctgaa 300  
 tgctcttggg ttacgggttt catcttgggt tagagagaat gggtagcac tacttcnata 360  
 acaacttatt tctgtataa ctctatcttt ggttctcttc tt 402

<210> 31324  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31324  
  
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 taaagatgta actcttcaaa aaggttttga ctttttcaaa taggttttat gtttttctaa 120  
 aaagttataa ctcttctgaa tggccttctt gaccagacat gaagagtcta taaaagcaag 180  
 gctctgtttt gtattcttaa tcaatctttc taacaacaat cttgaatact tttgcttttc 240  
 caatcaatcc ttacaagcc ttgaaatctc tttgaagttc ttcttcttct tcttttgtac 300  
 cacaagcttt ctgaagttnt ctggttctct aaaccttgan aacttgtgct attcatcttn 360  
 tcattctct 369

<210> 31325  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31325  
  
 gatactgtga natagaaact aacctctaca cttataatat cttctccaaa ttngcacta 60  
 gattntgaaa taatgtgtga tgcaagtgat tatgcagtaa gagcagttct ggggtcaaagg 120  
 aaaaataaaa tgtttcatgt catacactaa caagcaaggg tttaaataaa gctcaaataa 180  
 attatgccac aactgagaaa aaattgcttg caatagtata tgctttggaa aaatttaaata 240  
 cttatttgat aggatctaaa attgtggttg ttactaatca tgctactata agatatttgt 300  
 tagttaaagc tgattctaaa ccctgactta tccaatggat tctattgttg caagagtttg 360  
 acttaaagat caaggatgaa aatggaagtg aacattatgt ggcagatcat ctgtccagac 420  
 tgaccattga tgaggtgacc acacaataa 449

<210> 31326  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31326

tctagcttgt atagcaacat tatagttgct aaattatatg gattggtgca cctacaaagt 60  
tatgggggttg aactaatgtt tcctataaat ttgacaaca gctgacctca atctcactaa 120  
gcttggtggg tggaaacttt aacttatatg gtggaggcca acagtgcaga atgttaggaa 180  
cataagctgc tattcaaagg ttactactta gtggtagag gtactcctat ttctaaggag 240  
cataccttgc cgccaaatta agctagatat gaaaggctgg atgttctgcc acttaagact 300  
agtatttgtg actctattat gttctcacta catgactgac ttactataca tttaaacaat 360  
ngaaatntct tctagtatag ctctttaagg tgttctacat a 401

<210> 31327  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 31327  
tagacatgat cggtagatga ttcgtgactt gtatgaaaca attcgggaaa cattggatga 60  
tggaacaga ggttgtcaaa ttgcaactct atgcagaact ttgttgatga atatgcgcat 120  
gcagaagatt tgcataagg ccagacaaat gctatgtatt ttctgatagt ggaagagtcg 180  
acaaaatgag gtctggatgc tggctcgcca atcccaatgg tgaacatata aacttatgta 240  
cttaaaactt acagtgagat tttcaaggcg atccatcggt tcacgaattg gaacgataga 300  
aatggtactg tggctctcaa gagagaacaa gctcgcaact tggatcgagc tttgggc 357

<210> 31328  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31328

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actaacgtct tttaaaataa taatttctag ttntatatat ttttttattt ttatccttaa 120  
tatatttatc aagtttttta ctattcttt taaaataaat cataattttt ttttagttat 180  
tttatatttt tcacctgata aaaaaagtc aaaaactaat taaaatatca tgtcaaactt 240

tatcttaata agttaattnt tcagctttca actataatct tcttttaact ttgactaat 300  
 tnttcagtta tttttgttaa atataatctt gctccattga tctataaat ataccgtatc 360  
 attaatcagt aattaatatg tcatcgtctt gcacatggac tac 403

<210> 31329  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31329

taaaaagaat catgtaatag tagntntgtg atctctgatt taactaataa cttgtgaata 60  
 gcatattcac tcttatctga ttttttgnta ttatctatct taccctatct ttcaaggctt 120  
 ttggcactaa gaaggcccta tgggtgtttc cattgttttc aaaagaggat ttaaacaaca 180  
 tacctgcact aaggggcatt gagttcccta cacgttcgga tgttgatgta tgaaagctgg 240  
 gtagcttata gggttgaaaca ttnttttcat taaatgatgt catttatgct tacttcatga 300  
 cagtgcagcg tanggcatga aagtaatact ctacttgatt gctgatgttt taaattatag 360  
 aatngtccag tagatgtata tatgtaatgt tcgattcaga atgtttgatt attcttataa 420  
 tctaagaacc tgtgatct 438

<210> 31330  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 31330

agcttctgtt gttcaatttc gagcgtctcg atatattata tccccgaatc ggtcttctgt 60  
 gtgaaaagtt tgaaccattc gaatttctgg acagcttccg ttgttcaatt tcgagcgtct 120  
 cgatatatta tgtcccaaaa tcggacattt gtgtgaaaag gtatgaccat tcaaatttct 180  
 tgagagcttc cattgttcaa tttcagagcg ctagatgagt tatgtccgcg aatcggacat 240  
 cctatgaaaa ggtatgacca ttogaatttc tcagagctt tcttttgtca atttccagcg 300  
 tctagatgaa ttatgtccgc gaatcggaca ttctatgaaa agttatgacc acttgaatat 360  
 ctcgaatgct ttccgctgtc aatttcagac gcctctatat tttatg 406

<210> 31331  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31331

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 tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120  
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180  
 tcatagttagc ttccatcgag aattggtggt ctgttctactg gtccgccttc tttctccatg 240  
 ttcatcagaa tttatctccc tagatctcac tctgtgattt ccagtgttgg ctctgatacc 300  
 aattgaaatt ctgataccag gggacagatg tcgtacaaga tgtcagcaca tcacgcttca 360  
 gaacatgcag attatatgtg tccgtatgaa cagattatac aagtaaataa cacaagagaa 420  
 ttgtgtaccc aggtcggtagc tacctcacct acatc 455

<210> 31332  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31332

accttgaatt aattcctttg atagccctt tgagcctatt ttccccttcc tttggtttga 60  
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 agctttggaa ttggtttggg aataagctgg gaataagtgt ggggggggat gtttcattgg 180  
 aagatatgat ttttggccat gcttaatggt ttattttggc cttgcttgat gtacatatat 240  
 tgccatagttc tttctttaat cttcaattnt gtactgggtc aataaaaaaa taaanataat 300  
 aaaaaaaatt aaaaaaaaag gtaaaaaataa ttcagttgct ggcaaattct gcatttcgta 360  
 ctattaaataa aaaagaagta gaagaaaaga agtgaagttg aat 403

<210> 31333  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31333

tataatgaaa tgataaactt caactttatn tctgtagaat atctttacaa caaaatgttt 60  
gtaaaccata agatatagaa cataagtaag actcccacta aactaaggta ccatcaagaa 120  
ttacatccat atgagtagtg tgctcatgaa aaaaacttta agtgtcagac ctttagtaag 180  
tgcacagct agcatggaat gagtccctat atgttctata gaaatctgta ttttttgagt 240  
tctttattta acaaccaa atctttatgac aacaaat ttttgggtg aatcctaaat 300  
aagatcgcta agatgttggtc ccaataaaca ctcatgact tcttaatgtt ggcaacaaca 360  
actaagctag ttacaataat ntaaaagtca taaattctag tatgatgtct catagcanaa 420  
atattaac 428

<210> 31334  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31334

acgettaact taaacaacat tataatcaca acatattcaa aaaaccaaaa cccacaata 60  
aaactctggg aatgtaagta tttagtcttg cttttatcaa gttctaaggc aacagtatat 120  
ttcccaatgc ttaagtcacc taacagtaca cacaatggg ggatcaaacc aagagcattc 180  
cataattaag cattgaaaga agcattgaac acacaatata caattaatta gatattaaag 240  
ataattacat caacttttcc ttagaaatct ccaactanga tgnttagcca gccatacaca 300  
gaaacncaa cacaatgag atagagagta tagaataatt gctgcttaca caagaaaggg 360  
gatccnntc tctcttcttg cacctcaca tcac 394

<210> 31335  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31335

tactaagctt ggacatcaac taacttcatt ccctatgcat attactatct ctttatatct 60  
ttgacccgaa atagnnggaa tggtagagatt atgataagat aatattgaac atatcatgtt 120

ttttaagagtg gctgatgtaa tatcttgcac gttggagtat aagtataagg tgaagtccca 180  
 catcgggtta aaatggacaa gttgagcacc atataagtga ggagaagacc cataaaccag 240  
 agccttaagg ttttgggtta aagtgtggtg tcaagttcac ttatgtggtt gctcatgatt 300  
 cattgatgta aatctctcca atttttaccc ccgctcagtt gcacaacaat tggattataa 360  
 g 361

<210> 31336  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31336

agctttgttc tcagatctct cttgntggac tagacttaga ctaaacaaca ttattgtaac 60  
 aacatattta aaacaaaaac ttaatccgca gatccctctt gtaaaactaa gtttcaattt 120  
 tgcttcattc aagttctaag gcaacaatac atttcccaat gctaaaatca cctaaccaag 180  
 cacaaaaatt ggtgatcaga ccaagagcat acagaattta agcattgaaa gaagcattga 240  
 acacaagaaa cacaaatcaat tagatattaa aataattaca tcatnngttc ttagaaatc 300  
 cccaactagg ttgtttaaca agccattaca gaanaacccc taataataat gagattacaa 360  
 aacctangta tctcttgcaa agctgctcct c 391

<210> 31337  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31337

tgtaaaactaa natagatctt agatagaagt gtgatattgt tattttctga atggaaaccc 60  
 tcttaagagg agaaatctat ctttatgcaa tccaaacaca gaaacccttt gttggtgaaa 120  
 gtccagcaag tggctagcaa aggttgtaac tagtggtgtt ggtggtctaa caatggcaag 180  
 gtgtgaagtc tagtgggttt gttggttagt tgttgaaatc cagtggttgg ctagtccatc 240  
 aatgaaatct catcttgaag ggtgtgagga ctggacttag cccaagtttg gggtaaccc 300  
 gtataaaaat cattgtgtat catcttcctt ttctatccct ttgcattgtt ttataactgg 360

aaaatgttta ctatctttta ctctcactaa ggatggtaac tccctttgaa aaacacattt 420  
 aaaactgana ccatgtgtca aagtcttttc aacta 455

<210> 31338  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31338

agcttatctc tagacactat ataccagatg ctgtaaataa tgacaggaga ttccatgcaa 60  
 cctcctttgc aggagagcac tgccatggct gcttaagcaa aaaaaagaaa aagaaaaaag 120  
 ataacacaat tgaaaggta agaagttaaa agaaacaaat gtacaaatcc tactgccaat 180  
 taaatggaaa taaactaaag tgattatacc caatgggtgt aggcgtgtag ctcagctgct 240  
 aacacagacg ctgagtttgt aggggaggac ctangtttgg tccccgcaaa atacacttct 300  
 tgagagggcg ataaccttaa gtgtgactaa gtcctagacc anaaattaat ctcatagtcg 360  
 actc 364

<210> 31339  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31339

tactaagctt aggttttgat gtgtgagatg cangcaacgc ggaagcaata nattttagta 60  
 gtccagcttg acgagatgct tgtaactcaa gatcctttcc ctccaaatac tagaaaacaa 120  
 aagttaataa ataaaggaaa acaggcactt taaaaaatta actaaagcaa tttaaaaatc 180  
 aaaagactac tatccataaa ttatgaaagg gaaatgcata catttacact tgtaataatt 240  
 cttaaaaaaa ggaacttttg gttaaacacac tagttaagaa aaaggattgg ttggacgatt 300  
 gtccataaaa gttagtgtat tatatntctg ataaaacaaa aacgaagacc atatgcaagc 360  
 atcaaccaga aaaggacaaa gaanagctca gcaataactt cgagtctcat acgaatacaa 420  
 cagcaggaat cactagttct tccagataaa atattattca caaat 465

<210> 31340  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <400> 31340

tggttgcaagc ttatttcgac aatggtggcc tcttggaat gaagcggcta ttcctccttc 60  
 tgatgacgca tggacactta tctctgaccc aactacaatt cgttcgaaag gtcgaccaa 120  
 atcaacaagg ataagaaatg agatggattg ggtcaaacca tctgagcacc gacaaaaatg 180  
 tagtagatgt ggagccgaag ggcataacag gcgtcgtgt ccaatgcaat ctgagtgtgg 240  
 gagttgttca actcgtgat ttatgtatgt tagtcgagt acttgatatt gcttacgttc 300  
 tgtttaatgt atcgaatctc ttgggttcaa tgaattcggg agctaaaacc attctggctt 360  
 ctgtacatta cttatttctg ggggttcaatg acatcggttag ttaacaacat aaaca 415

<210> 31341  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<400> 31341

cggccggtgt gctcctgaat acgcaacata atactagcat tgcaagacat tgctttgtaa 60  
 cgccattatt tcttacctg catatttgaa tggggtgacc ttggcaggac cgatcatgcg 120  
 atagtcccat accttgccga ctgcttatac agatacgatt tccagtgatc tgaagaacgg 180  
 ccacaatctg gtgctccaag ttatttacta ctttacagta cttaatggat ggcacgattg 240  
 taggctaggc ctcatgatcc atggatcatt cgaaccacat ctacctatca tacactcgag 300  
 agacgctact gtgaggcact gctaccatac ttaatatgtc tactcattag acagatggct 360  
 gacacgatat cgcgacgtct cgctgcctaa tataccctat atgcttggac tgatcaaacg 420  
 accaaccaat tagagcgagc acatatgtgt tatctaataa agtgtacgta cctacactgg 480

<210> 31342  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 31342

agctttttca gagaaggaat ctacggagga aatgcttacc acctcgaaag actggaaagc 60

ggtttctaata gactcctctg cggcctccac ataaggcata gaagatgggc agctcaccaa 120  
 gttgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180  
 gtggagtgtg gaggaacaa ctcccactga gtggatccac ggacgccccac acagacagct 240  
 gtaggggggg ttaatgtcca ttatttggaa ggtaacttgg catgtgtgag ggcctatcta 300  
 tactgggagg tcgatctctc ccctaacctc tc 332

<210> 31343  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31343

tgaaccttga atcttaattc ttgattcttg aaatcatatt tcctcttgaa ctttgaagtg 60  
 ttcttgattc aatcttgaac atcttgaact cattctttga ttctttgaga tcatcatctt 120  
 tgttatcatg aagtgttctt gacctttgag ctttttgcca tcatgtttgt tatcatcaaa 180  
 acttttttga atcaatcttg attcatcatg aagcttgctt ttacaatctt cagctgctgg 240  
 taatcgatta caatcctcat gtaattgatt acatgccttc aaaaatattc aaaattattt 300  
 taaaaatgtt tcaggaagtg ttttgccac tggtaatcga ttaccagaga gtaaacctct 360  
 tgtaaaaaca tttttgctta aattcatcgg ccanacttct tgggtgttca acttgaata 420  
 tcctttctaa atcactagag atcttcttga 450

<210> 31344  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31344

tttgcaagct tgtaaaaaag ctagaaggag ntatgtcttt tacatgcta actcccttga 60  
 gtgacatttg tattggttgg tatcttgtgt gttgcatctt agtacatata aaatttttat 120  
 gcaccttca tcatcatagt aagtatgaag aanagtttct aagttagaaa ggtttcttca 180  
 agaggcaaaa ctctctattt taatcgatta caaggttgtc ataatcgatt acaacaagtt 240  
 gtttgaagct gggagagttg agtctcgat cggcttaatc gattacagta gactcataat 300

cgagtacagc tgcgttgag ataatgaatg atatattcaa gagtatttga tttaatccga 360  
taccaagt 368

<210> 31345  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 31345

ctacggtgaa caagagacat atataaatga atgaccaatg tatttaatga aagttgaata 60  
gtaaggccat gattggataa acttctctcc atgcgtacat atgggagaag aaattatgaa 120  
gataaaatga attgagtttc tctgtgaagc ctaagttaat ttacatactt tgacttttag 180  
agaatttaaa tgagattgct tttatagaag tacagtgcac gagttgattc taactcatag 240  
gagatgctca atttaattta tcttcttatt ttcttcttct ataagcgctt atgaagaaat 300  
ttatccaaac aagaaacctt ggcggtcaa aaaacatatt tgatatgatt gctgcaagat 360  
accttgaatc aaaatgcatt ggtaaatt 387

<210> 31346  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31346

agcttgctgc ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60  
tccagaagca accgccttct ggaggaatct tctggagggc ccaaattggc ctgggtgcta 120  
tttgcacccc catttttact aagtacaccc ccctctgctg ttttttggtg attctttttt 180  
cgtaaagtta cggaaactta cgaatttcgt aacgatactt gttttcttcc cgtaatgtta 240  
cggaaccttg cggattacat aatcatcccc tttttgactt acggaatgtt acggaacctc 300  
acttaattat gcaacgatgc ttccatttga tttccggtgt gtcacggaaa cttacggatt 360  
gtgcatcaat attttttttg gttnttcggc atgtcctgga atttcac 407

<210> 31347  
<211> 445  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31347

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actgggtctct ttcttccctt cgcaacttga gttcactatt gctaccccat agagctccgc 120  
gaaatttggt cgggccatac tcttccttgc gagccctctt gggtttcttgt tcaagggctc 180  
ttgcggtaat tgcattctct tcccgttaacc cggcacactc cttccgaacg tgtgtagcgg 240  
ccaacttgaa cttctccttg gcaagttttg ccttttctaa ctcgcttttg agagtttgga 300  
cttcttcgtc ctcttcgggt gtttcaaac tctcttcgct gacgactntt aacttggcga 360  
gccaatctaa acctcgata tgaaccttca gccattcgtg gtaccacca atgaggccat 420  
tacgaatgcc tctaagctct tgatc 445

<210> 31348

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31348

tttctgcggc atgcagcttt taaagcttgc gttgtatttt tatgttgta aagcttaatt 60  
atcccataag ctccagctat tagtgtacgc taatgaatgg tttaatatct tttagaattc 120  
atthagatc ctattttagt gggtccttat acagtttagca atagtacttg acttaattgc 180  
caatataaat tggagtatta ggtagggttag ggacttaagt cattgtgtta taccacatct 240  
tattaatcat atattattgg ttaccatctg tttttcacat cttctaccta atccctataa 300  
cttccacatc atattnagta taattttcct cattcgttct tccccctttt aaagtcaaat 360  
tcacatgtag tgacctaaaga tcatgtcaaa atctc 395

<210> 31349

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31349

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ttgggggggaa gttacatata taaaaaatgg atattgcatg aaagaaactg aacatttgaa 120  
 aaaaaaaaaa gatgccccgg ggcattgggtc tgcattatac ttagagctat ctactttaac 180  
 aagagaattt attcaggaaa actgggggtga tgggtgtgca ttaagagaag gttcacaact 240  
 ttgtcattaa ttcaatcaca caggaacccc taactcggtg atcttcatta tcnncggtgt 300  
 c 301

<210> 31350  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31350

tctagcttgt tagacttgca attctcacac ctgtcaaggt tatctctcga cactggacaa 60  
 tacttggtcca tgcttaaggg cttgactgac tcgtcatcct cctacttggtc aaagttacta 120  
 cccccgacac gggacaatct cctttgacac tagacaacct ctttcgcttg ccagccgggt 180  
 cagagctttg gatgcttatg tattgtccaa ggtccacaaa atacacatgt catgctacgt 240  
 gacactccaa gacacacgtc aaccctctat gtcagtcttg gcataagagc acagacgtct 300  
 aaccgtagt agctgggtcc ccaacagaca gggtattctct aacctcttaa ttatttgaat 360  
 atattgncat ctccatatct cttggcacgt atacaaagct acacattatc 410

<210> 31351  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31351

ttgacttgag tcatcaagag attataaata cgtgaccatg tcatgaatnt caacaattat 60  
 caatcatctt tgaatcatct atctttcaat ctttttcaac atcatctctc atgcatcttt 120  
 caatatcttt caattcattt ctctttatct ttcaaaaaga ttttgttcaa acactgtctt 180  
 ttccaagaaa agttctttgt tcaaaaactt gtgtatttca tctttttcat tctcttctcc 240  
 ctttgccaaa agaacgaagg acaaaccgct tggattcttt tgtgtctccc ttcttctttt 300  
 ccaagagaat tcaaaggacc ctgcctgaga attcttttga ttcttccctt acccttaagc 360

aaaagattta gaaggactag cgcctaaga tatctt

396

<210> 31352  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 31352

agctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60  
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120  
aaaatttcca atgaaagcaa aaaaggaaaa gaaggaaaat tccccaatca aagagtggga 180  
gaaagcaaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaag 240  
aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaggaag aagaagaagg 300  
aaagaaagct cctgatcaag gatcgaaaga aaaca 335

<210> 31353  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31353

tgtagagggt aggattaagt gcaaaaataa tgacttatac ttangaatcc aagcctttgg 60  
ttttgagtgc cagaaagcat gaaaatgaga gcatgttggc taagattccc ttttaggcc 120  
aacacttgggt ttgggctata ctgtgacatc ctggaaattt ctaccggaa ttttgtaagt 180  
gttacattta aataattata tgtattattc agggatatata tatattcttg gtagaagtat 240  
gtacattggg ggaaaaatac gcgggttaga ctaattaaca aagagtaatc cataactgga 300  
cagttataga ttaattcgca attaattagt ctaaaaatta tcattttgcg tgcgacttaa 360  
aatttaacaa aaccaacctc tggaccacgc tcanggtttc attctgagcc gtttgatata 420  
tatacata 428

<210> 31354  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31354

agcttgtatg tttgtacatg accaaatctt tagttaatcg tctttaccta aagcagtctt 60  
tgtattcggt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120  
aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180  
tattgctatg ctttttgctt aagagttact ctcatttcaa agagacttta ctatttgga 240  
gagactctgt ttctcttgat gaagtgcag ctgctctgaa tttaaaggaa ttgaatgaaa 300  
gaaaggaaaa gaagtcctct ataagtgggt aagggctgac aacaagaggc angaccttca 360  
agaaagatag taaatctgat aagaaga 387

<210> 31355  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31355

tccacaacat ccaagcaaaa caacattcaa acagcacaag ctatcacagt ctagcaaaac 60  
agagcaaagg cagaaaactc tgctcaacac atcaacaaa atcacagctt ttctcactta 120  
aagaccacag taacaattcc ttgatccaa ttcgttaacc gttggatcga ctccaaaatt 180  
gtactggaag tctatagtgc ataagcctac attgtgaccg ttgggatcta ctagcaaaca 240  
tccagaactc attctgtact actctttcca cagccaacca cacacaagca ttntctgcac 300  
caagctaaaa tctgctgca cctattgtga cagcaaaatt ctgcataagt gcagatttcg 360  
aacatcacac ttcnctcat ccaatcttgc tcanatcaca tctacaagt cccaaatcat 420  
gtatcanaca tgtctaaacc aaagccaagc 450

<210> 31356  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31356

agctttatga gttgaggtgt agagctttgg ttcccttaat ttgatgactt cagcatttgt 60  
agtctccata gcatggtaaa cacatgaagc acactatgct gagacaaatt caataatcct 120

aagtacttta ttaaacadat gtattttgtt tttttgatgg tgaacttgat atttaacata 180  
 gggtaagggg acctgtcccc ttgtgcttta agtaaaggaa aatgaccctt taagaaaaga 240  
 tggagttgaa ttaaaaccgt ttgacaatca tccaaactgt ccaaattcat agaactggca 300  
 gaaattgggt gtggatgtgc acatgttngt gtaggtgtgt ttgtgggtgat aatatataac 360  
 tctaggcatg tgagcttcga gaattatcca aacatagaaa acatagtcac tatgtcctta 420  
 tcatca 426

<210> 31357  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31357

gaagctntag tgcaatgtag agggatcaag agcagcgtaa gatggaaaga gcttgattat 60  
 aacttatgag gaagatagga agcttaatta aaaactatgt ccttggcaag taaggcttgt 120  
 cttcttccaa gctcatatcat atattatttg gtaaatagtc acttttgtct ctaaattgtgt 180  
 aattcgctga caaatgcgtt ttttaaagat aaaaatacaa aatttagttc tcgaaagtga 240  
 aaaaagtga ataaatatat tcgactgtta acttgtctgt taccattaaa aaaataacct 300  
 acgtgacata taggaacgaa tntatcactg aaatgggtgt caacatgggc atctctaatt 360  
 accaacataa ggatatattn gtcataataat attttcttga cttttcgtct tttcactctc 420  
 tangaatang aatacgataa atagtcactt ttatt 455

<210> 31358  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31358

agctttttca atgtatgtta tgcaaacttc cctgtttccc aagtctcttt aaaaagaggt 60  
 tgataggggt tgctgtcatt ttatttgggg tcatgataat tgttgatcct ccatctccca 120  
 ttagacgaca tgtgaagtgg aaaatgatcc gcacganaaa atctagtcaa atgacgtcta 180  
 acgcaataaa ggaaattgca tataggattg taagtaactt tcattcgtca gtgggtcattn 240

tttataataa ttcttggatc agtaaaccac atntgtttca tctattgact acagaattcc 300  
 ctggaaaagc aaccctcata gggaatcttt attgcccattg ggcattcaaga tgtattgctt 360  
 gtttccattg ggcaacacaaa gcaccctagt catgttcgtg attctagagc acggtgtacg 420  
 atcaaac 427

<210> 31359  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31359

tnccatagtt ctgaataaat cttctatagt agcttgaaat ttctatatat tctcttaatt 60  
 ctttgactgt ctcaggctctt ggccactggt ggattgcctt aattttatca agatctggat 120  
 gcaccccttt gacagaaatc aaatgtccca agtaattgat tttggttggt ccaaagctgc 180  
 attttttcta gttgaatgcc aagttgcgtt cttgtagtat ttgtagtgta gtgtgcatgc 240  
 attgaatgtg ttctgaccat gtcttggtat agactaagat gtcattcaaag aaaacacaaa 300  
 tgaacttcct aaggtgctcc ctgaaaatat cattcatcag attttgaaat gtggctggtg 360  
 cattgctaag tctaaaaggt aacacaaccc attcatagtg cccactatgg gttctaaagg 420  
 cacgtttatg aatgtcttcc tctaccattc tg 452

<210> 31360  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31360

agcttggttg agataattta aaatttaagg aganaaatag gaaactaaga ttctaattag 60  
 tgtggtacaa aataaaaaaaaa gtgaaattat ttgaaagatt acaagtataa gaaaatttgt 120  
 ggccaatgat caaaggaggg tgaaggcggg cgagtggcga gtgaactcag tgggttagaa 180  
 aatagaattg ggttttggat tgggttgctg ntctgtttat ctactctcct cttgttcatt 240  
 tcatcgctc tcagccacct ccccttcgct cctctctctc tctctctctc gcgcgcacta 300  
 caatcaaagt catgaaagca ttntgttcat agaagaanga aattcctctt cctattagaa 360

tacnggtntt ttccattca attcaatcat gttccggca ctgtctcaat tc

412

<210> 31361  
<211> 409  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31361

tatgaaaatt tctttataag gatgaagctg gctgctgttg ttttctacat agtacatagt 60  
taagtcatga cacaaagaag tagtttggtc ttgtttaatc tccctttatt tcatcaccaa 120  
gagaataatg tcaactccctt taccgttgaa cagaagttgt gattgaataa taggctacca 180  
tggcgctaatt tgtgtaaatt ttaaaatctt cttcttaata caaagtcacg tgattggtca 240  
gaattatcaa tatatttttt tccctcaagt ttaagagtta ctaatctaga tcaaccttac 300  
aattagatgc ccttccctat ctttgtaagt atccacaaat tctctgatca atattcaant 360  
agttggtagc tggatattaa attctctcga taagtctcat gttctatctt 409

<210> 31362  
<211> 357  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31362

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tctgtgaagc gtattgaaat aacttacaaa gagtttatag gaaggtcata agactaaata 120  
agctcttcca aacaaccctt aagtctccca aagcttaagc tgctagatga cagctcatga 180  
atgattttat atctagcaga cctaattaga aatttcttag actttgaaca caactacaaa 240  
cttcaatata tagagactga atagaaaatt tcaagacagt caagggacct gtagataaat 300  
taaataaaaa tataaagaca aggttataaa attaaccaat tgggctagaa tcatctt 357

<210> 31363  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 31363

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atttgtcatc ttgtgacagg gacaagattg ttttaagcaa tgggtcaaata ccgcgccaaa 120  
tccaagacag agatgggtcg aggttaagtgg taacgtgacc aagatttgct gcgcaatgtc 180  
atcttctgct ttcaagtact tgnnggacggn gacgaatgga tgctaggccc atgatcaaca 240  
gatcgctatc ctacgtccaa ctccggacaa tcgagaagcg ctacaggagg gcagcctagt 300  
atccttttaa ttctacata ttattattgt tgtttcttta agatgataat cggatgccta 360  
acttaccag ggggtttgag taagcgaaca ccaacctata gaaagcgcgt actttctttt 420  
gcaaaaaaaaa cgagggga 438

<210> 31364

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31364

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tatttttaat ttttattata tcttatcata gtttatataa aattttgatt aatcgattaa 120  
atttaaaggc taagaaaaga ggtaagatta attttttaag aaaaaaatg gattttgggt 180  
acattntact attttaatta gtatatttta aataaaagag gctttaaaat gatttaatca 240  
ttatgatata aaaatgaaga catagactat gtttggttta gttagttctt aacttttttt 300  
actagctgan aaaatttagt tgattatttg ataaatgaag tctcaatggt atactcaa 360  
tagttagaat gggatgata ggtttagaat tttcaattcg taagaaattg taac 414

<210> 31365

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31365

gccctctctt ccttcgcag cttgagttca ctattgctac cccatagaag ctgcggaat 60  
ttattccggc cctactcttc cttgcgaacc ctcttggtct cttgttcaag ggctctcgcg 120

gtaattgcat ttctctcccc gaacccggca cactccttnc gaatgtgtgt agcggccaac 180  
 ttgaacttct ccttggcaag ttctgccttt cctaactcgc ttttgagagc ttggacttct 240  
 tcgtgctctt ccggtgcttc aaaactctct tcgctgacga cttttaactt ggcgagccaa 300  
 tctaaaccct cgatatgaac ttccagccat tcgtggtacc caccaatgat g 351

<210> 31366  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31366

agcttgtcta acactatntg nttctcgtga agggacaaca aatggcaaag gagttagagc 60  
 tttaatagta agaataattg cttattagtc tggagatgga tcatggtaca ctaacatgct 120  
 tttatttagt acctttctgc acataaaaag tgcccaattt tgtatgcttt gtcttgagct 180  
 gacgaacaag attgtgagag agactgtact aaggttgtca cagtagatct ttggagtctg 240  
 aaaaaactca gaagagattg aatccatagg atttcagctt cagtactcag cctcagtgct 300  
 ggactggggc actaaattct gtttcctggg ccaccacaaa attaaattgg ngtaagata 360  
 tatacaagca cctaaagtgg acatcttata attcatctat atat 404

<210> 31367  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31367

tgtctcctat gcagtgcac taccctcaga atataaaatt tgttgtgaca gatccaaatg 60  
 caaaggaact tgcgaacccc accactccaa acacaatctc cacaccattg ctgaaaactc 120  
 atactacaag aaaatatgat ttgtagattc tccacacat tgctgaaaac tcacactaca 180  
 tagagtttcc gaggttgga taacattcct acgagccaaa ttctatttag agggaatgtg 240  
 atcctaaagc gctttccatg caaagccttg aatctttaa gcattctctc cacctccaat 300  
 cctcccccac accacccttc ctccaaagac acatctnctt caccgaaact tgcttatcta 360  
 tagccacatc aaataatcga ggataactca ataccaatgt cgctcacc acccaatgat 420

<210> 31368  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31368

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 aacaaacgtg aagaatgtca acattacatt caaacatggg tcacagaatc acaacgagaa 120  
 gtgtacttgg gagcttacct gaatcaataa gttgaattga tgttgtataa tatggatatt 180  
 atgtgcatta ttggtgccta actaatgttt ntcgtcttca gggcacattg gcaacttgtt 240  
 gttctgtgtc cacgggacaa tattgttggtt tggttttgtt ctttgcataa gaagcttgat 300  
 gttaacatca agactgcagt gaacaagtta gttttaacat tataaagtca atattgtata 360  
 gaaatcgtag cgtataaaca caatgattat ttgatata tg 402

<210> 31369  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 31369

gaaatgggca gcaaagaaca aacacacatc acagaagaat aggccacaac cattaacctg 60  
 cgctaaaagc cattcaaatg atggcatttt gatattcctt ggtaaaactaa gaacctgaaa 120  
 aatacaatag aaacatgggc accgagagac atctatcaca atagcatata agtatacctt 180  
 gaatgattaa caattctctt gactttcact taaataacat actcaatttg catgatccac 240  
 ttcttcaatc cttttaatta gcattaacaa ctatagcttt agaatacatta acaatcctct 300  
 tgactcttac ttagatgaca ttattcgaaa ctacatgaca ctccgagcac acatccaagg 360  
 atattttc 368

<210> 31370  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 31370

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ttntgaattc aaattttaat agctgttgta aatcagtttt ggccactggt aattgattac 120  
atcctctggt aatcgattac cagagagtaa atttgttgaa aaagactttt taacttaaat 180  
ttcttggcca aaccttttgc tacttcaatt ggaattccct tectatataa tataacccttt 240  
ctaagactct agagactgtc ttgatcatcc atcttgaata tctctaattt ctttgtcttg 300  
aataaagctt tgagacacat gtgaaacttt ggcacatca aaacattcag ctngatcctt 360  
tgtctactat ctcccccttt ntgatgatga caatccctga aatca 405

<210> 31371

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31371

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ggaaggctct gtgatggatc ggtcaacaag ttgtaaagtc attctcgtgg gcatgatttc 180  
caactctcac aaccttctac acatggagag cggcattaag ttgctactgg ttcccaaatac 240  
aatgagagtc tttctgatgt gccatcattt tcttctattt cttaaaccct ttntgcacca 300  
ttttaattac tgattagtct taattgtcaa attaattaag cagttttatt atttgggcac 360  
attgagctaa tttgatgttt ntaatctaatt ttcatgaatt aatgaaacat tgggcttaat 420  
ctgga 425

<210> 31372

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31372

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actaagctca cctccttgag aagcttccctt aagaagattc ctaaagaagc ttgagcttag 120

ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180  
 tacacacccc ctataatagc taagctcacc cccatgacaa anaaacatga aaatacaaaa 240  
 aaaaagtcct tactacaaag actactcaaa atgccctgaa atacaaggct aaaaccctat 300  
 actactagaa tggccaaaat acaaggcccg gatgaaggaa atacttattc taatatttac 360  
 aaagataagc gggctcatac ttagcccatg ggctcgaaat cta 403

<210> 31373  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31373

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 gtatgtatac atgattttga tgatgtcaaa gaagaattta acaaggctgc ttcaaagtat 120  
 aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt ggttcaagat 180  
 tcaactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggctctggg 240  
 aatcgattac caggaagtgt aatcgattac cagaagacag gggtgagaaa tagcagttga 300  
 aaaaggtttt gaatttgaat tttaacatgt aatcgattac catatgtctg taatcgatca 360  
 ctagcaacgg aactttggaa attcanattc aaaagtca 398

<210> 31374  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31374

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 cggagcccca tgaattgatt gcctaacgct gttcatgcat cttcatcat caaatcttat 120  
 tcggagcccc atgaattgat tgcgttcat gcacccctcaa ccattcagtc cggagcctta 180  
 cgaatagact gccaaagtct gttcatgaat cctctatcat caaatcttat tcgaagcccc 240  
 atgaattgat taccattcat gcacccctcaa ccattcagtc cggagcccca cgaattgatt 300  
 gcctagtgtt gttcgtgcat cctccaccat cttattcaga gccgcatgaa tngattgtcg 360

<210> 31375  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31375

tggaggggtgc gtagcccacc atcttttcat agtggagtat cgataatgtg tctaccatca 60  
 cgatcatcgt ctccctttcc attattgggg gtaccacctg ggccgccaga tccctccacc 120  
 ttttgggcgt gttctttgaa agatccgtcc ccctttttgc acatgttctg tagttgcac 180  
 ctattcagaa ccatatcaaa tttgtactga tactgcctaa cacaggcaac cattangtcc 240  
 ttccaagaat ggactcaaga aggttactaa gttagtatac cangcgacag ttgtcctagt 300  
 aagaccttct caggaaaaat gtatcagcag tttctcatct tttgtgtatg ccccatctt 360  
 ccgacagtac atcttttagat ggttcttga gcgagtaagt cccttatact tgccaaagtc 420  
 cggcaccttg aacttgggaa tgaccatg 448

<210> 31376  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31376

ttcttgcacg cttttaagct tttagaangg ctagacatga tacatgtcag ggtttggtct 60  
 ggctcaagga taaaatggat gcccacatt atttccatga cacaaaaatg caaaaatgat 120  
 gatttggaaa ctttatgcaa aactgggtcat gcatgcacct atgcggacac tcgagtgtca 180  
 aatttttatg gtcattgat gctatggctc atgattcatt tctctatatt tattcaaccc 240  
 aatgctttca aaatatgttc ttttatcaat ttgtgcattc atccgagtcc attttgggcg 300  
 tctgggacat tcttacagca ttcacccttc aagtgtatac acattttttc taaaact 357

<210> 31377  
 <211> 323  
 <212> DNA  
 <213> Glycine max

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<210>      31378
<211>      429
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      31378
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caaaagatgt	aactcttcaa	atagtttttg	actttttcaa	attggtttta	aggttttcta	120
aaagtcataa	ctcttcta	ggttctcttg	accagacatg	aagagtctat	aaaagcaagg	180
ttttgctttg	catttcaagt	atctttccaa	ttcattcttt	tgacaacaaa	cttttgccaa	240
ttgatttatg	aatctctttg	aacttcttct	tcttcttctt	tttgccaaaa	gctttccaaa	300
gttttctggg	ttttccaaac	cttgaaaact	tgtgatattc	atctttttca	ttctcttatc	360
cctttgccaa	anagaattcg	caagggacta	accgcctgaa	ttctttntgt	gtctctcttc	420
tcccttttc						429

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<210>      31379
<211>      452
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      31379
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gttttctctg tttccttagc agcttttgct ttttatgacg tccttcttca gcatgatcat 120  
tttctctctc tttccgtgat tccaatctat tccttcttggt ttccaaggcc tattgtagcc 180

ccacattagc tcaatcatat atatgttaga ttcttcgtta cttttaaata attatgtata 240  
 tcttctactg tatagaaaacg tgggcatgca accttattgc taacgtttat ccggatattg 300  
 aaataaagac gtgcttcttt ttctttcttt tctgcaaaaag agaaacaagt cttatagtct 360  
 gaaactgggt tcgttactag ctatcagatt cactgaaaaga aaaccatcta gctgttacct 420  
 cagagattct ttctattgta agttttattct ct 452

<210> 31380  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31380

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 aaatccaaaa tggttacttc tcagcaactg actggagcta tggtaaattt accatagaac 120  
 gtcgtctacc atagaatgtc accaacaatca gaaccattta tccttggttt tcatcaaaaa 180  
 agatttataa atatggccat aaacttagat ctattgttga tgtaataact aatggtatga 240  
 ttgtgaaacc ttttttagcat atgaattatt ttttctttgt ttataataga acaattttta 300  
 gtcacgggaa aaaaatacaa agagaacgaa ggataagata tcataattag catatgtaaa 360  
 aagcagaaaa caacaaaaac aaagaggana tcaacaaaaa gatgttcact tcctcgacat 420  
 atatactagt gaga 434

<210> 31381  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31381

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 ccatagccat cattggaaag ctgacattgt ttagtagggg agtcatcata ttaccatggt 120  
 cctattgagt gtaccacgac catcgттаag tgacaaagtc ttcaaattctt cagaaaaaat 180  
 gcaaattcca actctttcac tcaattcaac ggctatactt ctataagaca aaactagcat 240  
 tcaaatgaga gttctgcca gaaaatacat gaaaatgaca caaaaaatca cataaaatat 300

cactcaaaaa gtggtttatac accttgccca cacttgagcg ttgcttgtcc tgaagcaagt 360  
 gttctagtcc tttaataaaa acaattatcc taaatcagaa ctcatgtatc tganatctcc 420  
 atttattcan atgtanaact cacatta 447

<210> 31382  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31382

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 gcccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120  
 ctggatcatgc atgcacctat gtggacactc aagtgtcaaa tttttatggg catgtgatgc 180  
 tagggctcag gattcatttc ctctatttta gtcaacccaa tgtttccaaa atatgttctt 240  
 ttatcaattt gtgcattcat ccgagtccat tttgggcgtc cgggaaaatt ttcacagcat 300  
 tcacccttca ggtgtagaca cttttttcaa aaaccagtta tgatcagtga atntttttca 360  
 nagaanagct ggaagttatc tctttttcaaa agcatgttgg ttnttcagct agacaactta 420  
 tttgctnttt tctccttc 438

<210> 31383  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31383

tgagtttact agtatnttgt ttatgaaatc agttttcaaa ttctcgaaag tgaatcaaac 60  
 ctgccctaaa aaatctttgt tttctctctt cttctatatt cttccatttc tactcatttt 120  
 ttctcttctt tccctatcac ctacacttga catggcagta taacacccca aactttttta 180  
 ccccatgtta tagaatcatc aaatatacat atccacccaa gaagtacaaa catagacatc 240  
 atactcaagc ttactttctca ttatgtaacc atggatttct ttccttaaata taaagcaacc 300  
 caatcaaatg actgcttgta gagcactagt tattgaacat gaatccagca ggtggaaatg 360  
 agatagaagt ggaaaaaggt ggattcaaca gtctttttaa ttaaatagat gacactaaga 420

430

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<223>      unsure at all n locations
<400>      31384
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<210>	31385
<211>	443
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31385
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agaaggaaaa	aaaatcaaca	agattgaaag	gccaatatat	caagtgcaaa	agaaagtgct	120
gccacataat	ttttatgcgt	tcactctata	aagtgtagga	atttgagata	tcatgacaaa	180
aaagatatat	gtaaatttaa	aaattaaaag	gattgggaaa	gaggaaaaat	aaaaattcta	240
ctaaggttta	tacaaacaag	agaaactcta	tcaattcatg	ctaattagaa	gaaaaaaccc	300
aattttttagg	gttcacactc	aacataggaa	cacatcaatt	tcacaacaaa	ttcgtatcga	360
gacaccaatt	agtctgtcaa	acacagtcaa	tccacaatta	anaacataag	aacataattg	420
aatntcataa	aacaacccaa	gtg				443

<210> 31386

<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31386

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tgccattcct tggattatag ggttgaaccg agtcatgct tttaaaaaa ggttcatcaa 120  
gtcagggttga aatatggaag taaccatcct gcaaacttgg ggcaaaagat gaatcgagtc 180  
acatcactgc ttcgtctact gccaaacata ttaggatta ttgatgtcct tgttacttcc 240  
agttttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
tatcctgcgt aaaaattcgc aatacttcta catcattcgc atgcatccat gcttttcatt 360  
ggttgcatg ctcattgcat tctcttcttg aaaaataaaa taaaatgaac ttatcaaaaa 420  
aaanaaaaaa aacaaaaaaa 440

<210> 31387  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 31387

ctatatggac gaaagtgcaa aactcctatt tggttggtatg atgatggaga agcagtactt 60  
cttggacctg aaatgctaca acagattaac gaacaagtga ggttgattcg agagaagata 120  
aaagcatctc aggataggca gaagagctat tatgatataa ggaggaagcc actagatttt 180  
catgaaggag aacatgtgtt tttgaagggt tctcccgtaa ccggagtcgg aagagctctt 240  
aatgctagga agttgacacc caagtatcta ggtccatata aaattttgaa gaagattggg 300  
cctgtagctt atcatatcgc cttacctcgg agtttatcga atctgcatcc tgtgtttcat 360  
gtctctcaac tgagacggta caaccagat ccatcacata tacttgagc ggac 414

<210> 31388  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31388



agaaagctag cagatgggcc taaaagaaat gctataactt ggcaaggata cgacataaac 180  
 aagtattcat ttacacaaa tgaacaagat gacaaaggca caatgcanaa tagcagggtc 240  
 atcctaaggg ctgaatctca acactttgca agtgtgcatg atgccaatcc ctgtgtagct 300  
 gtcacccctt actttgggtt cattgatgaa atttgggagc ttaactatgt gaaatttact 360  
 atctgtgttt tcaaagttaa atgggttgac agtaacaccg gtgtgtgcac cgatgatata 420  
 ngatntatgt tg 432

<210> 31391  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31391

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 ntcaatgtcg agcatctcga catattatgc gctcgaatcg aacatccgag tgaaaagata 120  
 tgaccatttg agtttctcga gagcttccgt ggttcaattc cgagcatctc gacatattat 180  
 gtgcccgaat ctgaccttcg tgtgaaaagt tatgaccatt tgaatttctc gagagcttcc 240  
 gatgtttaat ttcgagcgtc tcaatatatt gtaagcctga atcggagctc agtgtgaaaa 300  
 gttatgacca tttgtatttc tcgacagctt ccttgggttca attccgagcg tctcgacata 360  
 ttatgtgccc gaatctgacc ttcgtgtgaa aagttatgac catatgaatt tctcgagagc 420

<210> 31392  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 31392

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 tctgcatcgt caccacaacat cgccactaac tgccctcatc gcacaattac attatgttca 120  
 ttggtatgcg ttttatgttc attggtgaat ctgattgtgg cgtttatttg tgttatgttg 180  
 tggaacaatt acgtcgtcag catcggagaa atcactgacg acggcggcac atgtcgaaga 240  
 gtgacaagag gagccatggg atgggagact ccaggaggag ggagacaaag ttttgatgtg 300  
 ggaaggtgca caataaaatt atgcacatag attaacttga aagccaatga tagtgatcca 360



<210> 31395  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31395

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 caagttaaag aaaaatttga gtaaaggatt ttcttcacat aaatattctc aaagtattga 180  
 ttccttattg catttgacaa acttctctag gccagacatt gcatatgcag ttggttagatt 240  
 aggaagggtat actaataatc ctgatcattc tcattggatt gcattagaaa gagtttttag 300  
 atacttaaaa ggaatcatca attatgacat tcattataca tgttntcctg cagtaattga 360  
 ggggtttaat gatgcaaatt ggatttctga ttctgatgaa acanaatcaa caagtgggta 420  
 ctgttttact ttagctagt 439

<210> 31396  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 31396

tgcctaatta acctgaaatt gataggaaat gattattaaa ttttcaaaat gggagtacta 60  
 agtacttatt acctatattt aacaaaaagt aattacaaca ctacaaaata accataaatg 120  
 agaggagtta gatacaattt tcacagattt cttacacaaa agttagtcgt atttatcgac 180  
 taacagatat cattccattc atgattatgt gcaaaaatgc atttttgata taaagtcttt 240  
 agacacaaat catcaatgga ttgatatctt cactaatcct ttgtctaaag aaagcttcat 300  
 ctgtataaag gaacatttaa catatgatta gcttatcaga ttaatgaata tttcttggac 360  
 gataacatcg tattactttc ttatcattaa tccgctggga ctaatgtttg ttgaagt 417

<210> 31397  
 <211> 424  
 <212> DNA  
 <213> Glycine max

00307:3072400

<223> unsure at all n locations  
<400> 31397

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ttagttgaat taagtagtgt gttatgttgg ttgaagataa ataaaatgat attggggttg 180  
taatgcagct ggaagatcct agcattgaca ttcacaagga agggaaatac ttgatgcttg 240  
ctgttcagga gctgggttca ggggatcaat gtgaacgaag gtttgtattt ggccgcgaaa 300  
gccggaagcc taaggcctcc aatgatgaaa acaaatttac gaaagatgga acatatccca 360  
agagcttgct gcagacactg ttgatgagag cagggcactc cccaccanaa tacaaaacga 420  
aaca 424

<210> 31398  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31398

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acaaacgggt aggattaata cctgtttatt agggatgggt tcgagatgga tatttactga 120  
caaaaaatta atggggatgg gttcaggtat ggggtactata gtaccgatcc catctcacct 180  
catcatgccc ctatgatata tattagtttg attaaaatat cttttatata ttactaatta 240  
ttaatttaat ggcaattggg aggcaacctt acctttgttg atgcacataa atttgtcatg 300  
cctttatgtg aattatggat caatacatct ggaacgcac gtagattgaa tgagaactgg 360  
ttttgaaact taaggtaatg cacaaaatat catgtaaatt taccctaata acattntttt 420  
aatgcttaata aaatc 436

<210> 31399  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31399

tggggccata gtctccacac cccacttgac aatgaatttc tctacactga caagtgagat 60

tgtaactatc aagattgacc aaaagcaagc gcgacagtgc tatgcaaaga tcctgaaggt 120  
 agcactatat cctcccatcc gagagccgac catgtctcac atcacagtga ctaaagactc 180  
 tcaagtcatg acagtggacg aagggctctca naactgagcc ctaaccatct gccaatccac 240  
 ccacgacgag tgacatgtgc tcacgagcac cccactaagc ctccaatacg tgccacccat 300  
 ggcatatttg cacgagcata ttgctatgtc tccagcatat gtcacccacg gcaagtgaca 360  
 tatatgcana agcatactac taagccttca gtacgtgcc a cctgcggcat gtgcgcacga 420  
 gcactctgct aagtctc 437

<210> 31400  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31400

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 tggggtacca agttaaccaa tgcattccagt tttccttcaa gcttcttagt ttcagatgat 180  
 gcagctgagt ttgtagctac ctcatgcact cctctaataga ctatagcatc atttctggcg 240  
 ctaaacttct gggagttgga agccatcttc tcaattaaat ttctgacttc agcaggagtc 300  
 atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaactggca 420  
 catagttntt aaatctctcc cagta 445

<210> 31401  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31401

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 attcaacctt gttcatgcta tctatcaatt aataatttac tttggcacat cttagagcta 180



cctttnttca agtttttgct acctaaagcc gcattgcaa tcaagcatat tttcctttgc 360  
 tgactaaaat tgcattcaaa tttaaaaggt atattctttt gtaatatgtt ttcttcccat 420  
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<210> 31404  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31404

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 ccaaaatttg ttttctggga cataaaagat gtaattgatt aaaaagctca atttagtatt 180  
 caatttttga ttgtgttttag atttattggc tttttatcac cttgcatttt gtcgcaaatt 240  
 atctgacaac ttttttctcc cctattttaa ccagagtcct cctgaagttc atgccaacgc 300  
 ggctgaaaca ttgtgcacaa taactcgaaa tccctcatcg actctagcaa ttaaaactttc 360  
 aagcccaagg tttgtattct atggntntat gttcttctct gatatgtaac tctgaaataa 420  
 ttatgtatat ttttatatat g 441

<210> 31405  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31405

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 aatttggttt tagaattaga aaagcatgaa aatagggact tggttgtaag aatttggtgt 120  
 gccccatgat tggtagtttg cacctaagta acgtgggaaa tgcttttcaa tgggtgtgtag 180  
 atatgtgtgt aatatataagg ggcataaaat tcttcgcaa gtatgaataa gttgttttcc 240  
 taagtgaatg tatgatagca tgggaatgcc ttttgaatgc aaatgtgtgc angatgtaat 300  
 tagctttccg atatgcattt aaataaatat gagagaaaca ataaaaattt gtatgaggta 360  
 ctttaaatgt atgtaggtag ttcgtgatag aaaaatgttt aggatataaa ttacgtgtaa 420

agtttgacgc aacac

435

<210> 31406  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31406

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agcttcaaca ggggtcatgt ctccaggac tccaccacta gcagcatcta tcatacttct 180  
ctccatatta ctgagtcctt cataaaatat tggagaagaa gctgctcaga aatctggtgg 240  
tgagggcaac tggcgcatgg tttttgaaat ctctcccagt attcatatag gctttctcca 300  
ctgagttgcc taatgcctga aatatccttt ttgatggctg tggctcctgga ggcagagaan 360  
attttttcta agaatactct cttgaggtca tcccagctcg cgatggacct tggagcaagg 420  
taatatagtc agt 433

<210> 31407  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31407

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ttgtggccac gatgatattt ttcatacaca ttaaagcaaa ggccacgttc gcgacacagg 180  
gtatctcttc ggaggataat cttttaacag gactgggggt tgatggtttt aaagggttga 240  
gcancgagga cgagggaaag gaaagggttg acgaagaagg agctgaggca tgtggaaaaa 300  
aattgtgagc aggaatggcg ttgggacgac cacggaaggg ccgacgagtg tcaagaaact 360  
tctcttccta gagccaagct aaccccgccg cttgaccaat gtcaac 406

<210> 31408  
<211> 229

<212> DNA  
<213> Glycine max

<400> 31408

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ccagaatcaa gatcaagatt cccgaatgaa gaaaagactc cttcagatca gtttagaagt 120  
ttttcaaact ttgaatagca catgagtttt gacaaacctt taccaagagg tttactcttg 180  
gtatcgatac atcttgtgta tcgatatcag tagcaaata gttgaaaag 229

<210> 31409

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31409

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acctggagat atgtcgcggg ggtcaggaga ccttggggac atcaggtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgacca ccccgggcat agtcggtcag tgagaacctg 180  
tgatgtacct aaacaggcga gtccttgga gtcaacagat aaaaggaaca aagaccacaa 240  
agcaaagagg cttgtggtgg ctggccagct gtgaactttg attgatatgt gggttgtggc 300  
ctctggtaat cgattaccaa ggggtggtaa tcgattacaa ggcttaaaat tgaagacaga 360  
aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgattac cangcttgaa 420  
aac 423

<210> 31410

<211> 425

<212> DNA

<213> Glycine max

<400> 31410

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aaaaaacatt ttcatactta tcttgattaa gccttctctt gattcttgaa tcttgagtct 180  
tgaatcttga tctcgattct tggaagcttg aaccttgaat cttgattctt gattcttgaa 240

atcaaatttc ctcttgaatc ttgaagtgtt cttgattcaa tcttgaacat cataaacatc 300  
 ttgaacatct tgaactcatt ctttgattat catgaattga cctttgagct ttatgtcatc 360  
 acctttgtta tcatcacaac atctttgaat caatctagat tcatcatgaa gctttgcttc 420  
 tacac 425

<210> 31411  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31411

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 ggaagagttt gatacaattt acacaagttt tatacacata agttagtcgt attcatcgac 180  
 taacaatggt ccaaaattta attggattgg gcttctccca attcaattaa atttctctcc 240  
 caacacacac acatcaaata gtgcacttaa tgcattgtgaa attacaaaac taccctaat 300  
 acaaaaacta gtctaggtgc cctanaatac aagggtctaa aaatcctaca ttactaggg 360  
 accctcccta cactacggag ccctaaatac aaggaccaa aataatgaaa ccttaatcta 420  
 atatgtacaa agataagg 438

<210> 31412  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31412

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 taaaactaac ttccaaatg tttgccttcg caggaaatgg ccccgaggaa gcttgctca 120  
 aagaggtcca ggaaggacaa ggcagccgaa ggaactagtt ccgctccgga gtatgatagt 180  
 caccgcttta ggagtgtgt acaccagcag cgcttcgagg ccatcaaggg atggctgttt 240  
 ctccgggagc gacgcgtcca gctcangaac gatgagtata ctgatttcca ggaggaaata 300  
 tggcgccggc ggtgggcacc actggttact cctatggcca agtttgatcc agaaatagtc 360



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tagccctaga	ggggatggac	cttttaggtt	ttggagagga	taaataacaa	tgccatatagg	60
ttggacctcc	tagaagagta	tagagtcaac	accactttta	acattttctga	tttaattcct	120
tttgcaggtg	gagttgatat	tgaggaggag	gaactaacag	atttgaggtc	aaatcctctt	180
caaggggaag	gggatgatgc	aatcctccct	atgaagggaac	cagtcactag	agccatgagc	240
aagagactcc	aagaggattg	ggctagagct	gctgaagaag	gcctagggtt	tctcatgaac	300
ctcacggtag	atttctgagc	ccatagacca	aggttgggtc	caattgtctt	tgtacatatt	360
agactangat	gtcattatat	ttgatccttg	tatttangg	tccataatgt	angtagggta	420
ccctagaaat	at					432

tataattcta	atatatctct	taatgagaac	aatgcatggt	attgttacag	ttcttgagat	60
tactttcaca	agaattggac	gatggttctt	ctcaaagggt	agatcaagaa	cgtgctttgt	120
caagtgcggt	tgatggtata	gcacttgaca	tgcagagaaa	atccgagtct	tctgagtgtg	180
aaagagagaa	gcttcgtgaa	tatgagcatc	aatgtcgtga	gaagatttca	attgatgatg	240
ttcagcctca	ttgtgaaaag	gtggatgcac	atttggaagt	tcagaaggag	acggatgctg	300
ctcctttact	tgactgtaaa	gagacgcagc	agggatctgt	tgattggaaa	attgatgaga	360
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ttctgtctgg	ttgtctatc					439

13099

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 actttgagag aaaataacaa ggcctttcat ttatgcattt gataacaaat aaaatagagt 120  
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 tagcgatatg ctaggctaga cggtagctct tacgattgtt catcctttct atttgttcct 240  
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 aatctacgat ctggact 318

<210> 31418  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31418

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 taccttgga attgttggtg actacagctg ctactactat cataaggaag cattcgcaag 180  
 cttggtgatg aacatgattg aaattgtgcc ataacatcat catcatagac atttattgga 240  
 agagagtagc tggggggagg atcatgtatc tcatccgttt ttgtctgtgg aataagctgg 300  
 gatagggat ttttagactg ctaaacacaa aagttatgta ataaataaat aaacaatgag 360  
 cccaaaatag atggaccaga anatgctcta agagaattnt aactccttga aggagaaaga 420  
 tgaataagaa tatc 434

<210> 31419  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 31419

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 gtacgcatat gtaattagga gcacaatcga ttctaactca caaaaaaaaaa actagcggtt 180  
 gtgttaccca aaatcccata ttctcccat ccaaacagca ataattttct ccaaagcaaa 240

ataacattag tcgtccttaa attatattct attaatcaaa gattaaaatt gagtatgcgg 300  
 atatatatct atgaactgca aggatcaaga attcaaggta aaaagctact tggttagata 360  
 tgtacca 367

<210> 31420  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31420

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 gtcacatcac aacttagatc ttaattgaat tttctagctt actaaccat attaaataat 120  
 ttcaaattag ggactatact aattatttca actggtgttt tcatatggtg ttgattttgt 180  
 gcatgttaat ctgcctcatg aaattttgtt attcatcggt gtatcagcat gacaatgaaa 240  
 aactatttat tgtgttgctg accaatgcca caattaaaga gggccaccct gtactatgat 300  
 atatagttac ttatgttggc tttctttcac aacaaatatg ttgttttatt gttttatnt 360  
 ctatgtagct ggttggttat tcatgttttt tcttggtatg gattttcttca actggagagg 420  
 agtttttctt acataca 437

<210> 31421  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31421

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 aagaatcaag ccaaggttat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120  
 tgatgatgga tggctcaaat tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag atgagaatca aggatttcaa gtcacaacat gccaaaaact 240  
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaaaaacatg 300  
 caaagtcgta catgcacaca aaattgaccc aaaatattaa actaacaatc cgacgaaact 360  
 aacaacatta acaaattaac aaaaccaaca aaactagcaa aaccaaagaa cccccccnc 420

<210> 31422  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31422

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 cttaggaagg gtatattaaa taggaaggga attcctaact gaagtagcaa aaggtttggc 120  
 caagtaattt aagttaaaaa gtgtttttca agagatttac tctctggtaa tcgattacca 180  
 taggatgtaa tcgattacca gtggccaaaa atgatttaca acagctatta aaatttgaat 240  
 tcaaaatttg caccatgtaa tcgattacac atatatggta atcgattacc agcagttatt 300  
 gaacgtttta attcaaattt taaagcttgt aatcgattac acacatactg taatcaatta 360  
 ccagagaaga ttttcaaaaa atattctcaa cagtcacatc ttttcattnt gttcttgaat 420

<210> 31423  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31423

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 cctangatct tttcatcaa tggantccct tgcttttcgg attatcaatg gcagnngaatt 120  
 ggcgaacgta cagagagagg agactccact tccccgacac gatgagtata aaagaagctc 180  
 atctccatac gacgccatgg atccgacctt ggacgattat cgatatgaat gcagcggata 240  
 gatagacgag cagcaccctt tgtgttaciaa ggagccctgt atctgtagaa atctnctctg 300  
 atcatctctg aaaaaaatac acacacatga cctctattta tctcctaagt gtcacacgaa 360  
 atcgcatgta tattcatatc acacttgtat ttacattga attctgggaa ctcaactctg 420  
 gagctcacat ctggctgatt atgatcaccg acatttaatg ttgtgtcacc tcaactaatgc 480  
 cagaccccat accagattcc c 501

<210> 31424

<211> 440  
 <212> DNA  
 <213> Glycine max

<400> 31424

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 cacactatct atctcaaaga tatggctata gagatatgag attttgtttt tttcttcaag 180  
 gaacaaaaaa aataataata aagctttcaa gagtgaaatg agatataaca tgagattttt 240  
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 cccgtcacag tgtatgttca ctttgagaac acatttctgc atgtacaagc aatcccaaga 360  
 ggcaacacag aataaagaga aatttcgttg taaataagag gagatattga aatgggggga 420  
 taaaagtaaa acacaacatg 440

<210> 31425  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31425

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 aagcgtggac atgaggaaca ttcgtgtact gaaagcccaa cactcaacat cgaccacca 180  
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 actatcattg gcaaataatg gtagctaac ctagtcaa attggtttatt caaattcaac 360  
 aattgtatat gcatgcagga ttcattacag gaacaagcaa cacaggggag ttntgttctg 420  
 catgggcgac aggacatact caacac 446

<210> 31426  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 31426

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aacggaccga agctccgaga cgctgactat atgctcgtac acgccacgtc atcattcact 120

ctttctttgc agtacaacga aaatcctatg cacctcgtat atctataaaa gatttcattg 180

aatgcttaaa agcctatacc tgaattaaag gccttacgtc ttgggatacc atatacttgt 240

accaanttct ataaaaataa atacgct 267

<210> 31427

<211> 444

<212> DNA

<213> Glycine max

<400> 31427

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agagacattg agacatagaa gcctgcattg ccatgtttgc aaacaacagc atccaaagca 120

atgaaaaaat tcacaaggta tggaactaag ttactgaacc tgtataagag atgccatcat 180

cattgtccat tgtaatcatt ggtggagcat atggggagac attggatcga gcagtgaagt 240

tagatgactt tactgcagga tcagaaaccc tttcctggaa aaaaaaaaaa aaaaaaactt 300

gctaagcatc taaaagtcac actgaatatg attagaataa agaaagaacc tagagtttcc 360

agtatttcac aaatgcacaa atacttcatt agctttcttc cttttcgtta cttttgctct 420

gtttcacttt cctatatttc ttac 444

<210> 31428

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31428

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gtagcgtcac gatttcagag cctattttaa gcttgtcttg tgtagaatta gggtagcact 120

tttatgacag cttctacaga cggtcagggc acagattttc agagcagcca cgggcctatt 180

tatggaaaag agccctagaa gcataaaaga ggagcaactt atgcattgaa gcctacgttt 240

tgtcatttga gagattattg agtagagagt gagtgtgaga tggtgagaag aggaggagga 300

atcccccttc ttatgtatgg aactatcatt ctctgctttt aatctcattt attattaggg 360  
 tttctttgta atggctggct aaacacccta gttgagggat tttaatgaac acttgatgta 420  
 atacccaata tctaata 436

<210> 31429  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31429

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 caaatgggtg atcagaccaa gagcatacaa aatttaagca ctggaagaag cattgaaçac 240  
 aagaaacaaa atcaattaga tatgaaaata attacatcga ctgttcatta taaatcccca 300  
 acaagggat ttagccaacc attacagacg aaaccctaac aataataagc ttacaatacc 360  
 taggaatttt attgatatga ttcttaaagt agatacaaga attaagaaac ttacctaaga 420  
 at 422

<210> 31430  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31430

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 gatttatcca aacatgtaat ttaccttga aatatttcaa ttacatgatt aaaatgaatt 180  
 acccagttaa aagtcacat ctaaacacac tcttattgat tttatccggc tçgtctagtç 240  
 gaatttacct gtagtcgaga caaaaaaat tacaaaatac ccaaaatggt ggtcaaacaa 300  
 tatgaaatcg aggagcagaa aatcaattcg tgccccaatt gttaccaat catacaaagc 360  
 aatcaatca actctatagc gtagagcatc gtacaatacc aagtccagcc gcacaaaatc 420

aatc

424

<210> 31431  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31431

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 actgagctca cgtactccca catagccctt atcctcgttc ctctcaacac cgggtcccca 180  
 tcaatccctc caagcttcca caacatccaa gcaattaaaa atccaaacat catgaactat 240  
 caaaaccaag aaaacagggc agaggcaaaa aactctgccc aaaacacaaa caaataccac 300  
 aactttcctt actcaaatac ctcaagtaaca ttctcttcgt tcctattcgt tcaccgttgg 360  
 atcgtctcga anaatttact ggaggtccct agtacataaa tctacacttt gaccgttggg 420  
 atctgctaga aaaca 435

<210> 31432  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<400> 31432

ctccaataat tcaaattggtc ataacttttc acacggaggt tcgattcttg cacatgatat 60  
 atcgagacgt tcgtaattga acaacggaaa ccctcgagaa attcaaattg tcataacttt 120  
 ttactcggat gtccgattca ggcacatcac atatcgagac gctcggaatt gaacaacgga 180  
 agctatgaag aaattcaaatt ggtcataact ttctactcga atgtctgatt gatgtgcac 240  
 acatatcgcg acgctcgaaa ttgaacaacg gaagcaatcg agaaattcaa atggtcatac 300  
 ttttctgacc gatgtgcgat tcaagtgcac cacatatcca gacgc 345

<210> 31433  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31433

tgtatttaac aatgttntan aaatactttt aattaatatt tgaattttta ttccctttatt 60  
aatatatatg tgaggggtag aggggtgtcac actatatata attgtttatg ttttagtggt 120  
ttaatgataa acttatttga ctaacaatgg attaggggta ctataatacc tanggttttag 180  
tggtatatgt cttattaggg ttccagtttta cttgaatacg taaggccttag tggatgtga 240  
ctaattaacg ttcaatgtta gttcagtact tanggtttat tgttacgtga ctaatatagg 300  
gtttatgggt gtgtgaatac ctaagggtta gtgttacatg tcttattacg gtttagtttt 360  
acttatatac gtaagggtta gtggtatgtg actaattaac gtgcaatgtt agttcaatac 420  
ttatgggtta t 431

<210> 31434  
<211> 291  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31434

tggagtctgc acgagacagt catanactat gtagatgtcg tgttttagtac acggcgatac 60  
agaatacact cattgtggca tgacatggga aaagaccaca actatagcat atacattaaa 120  
agatgtgtga gtccagtata catatagatg ataccttctt gcattcattg gggctcaaga 180  
tgattatatg tgagtcttag actcttctac tgcctaaata tatagattct gtagacttgg 240  
acttacataa tcacgaagtc tatgatgtcg tggaccatga cgataatgct a 291

<210> 31435  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 31435

tttccgtaat tgtggtataa gtgtatcata aagtcttttc cataagaatt agtcacaatt 60  
gccttttggga atgagttctc caaacaaaaa actaaccaag caaaagagtc aaaacaacca 120  
cttacctaca gtatctacct caacccaacc ctcaaaggag ctatgcacag aatgtagatg 180  
ctacctcgac ccgaccttgg cggagctgca ccaaacaac caatgttcgt gacattcgac 240

ggatataacg atgtctacgc cagtgcaccc ttcacggaaa acatacttga atgaaaatgg 300  
aagaagggtg tgggagtagg tcagctgctt ttaagacaaa gggtgaataa aggaaagtta 360  
aatacatca 369

<210> 31436  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 31436

tgccaccag cttgccagc cgagctcagc tcgcccaggc gagcaagggt gcttcctcca 60  
gaagcaacag ccttctggag gaaggatctg gaaggcccaa gtgggccata ttgctatttg 120  
cactccatt ttactaaatg caccctctc tatttttttg gtaattcttt ttccgtaacg 180  
ttacgaaact ttacgaatt tcgtaacgat acttattttc cttccgcaag gttacgaatc 240  
cttacggatt atgtatttac tcttttttag ctttcgaaga agttacgaaa actcacggat 300  
tgcgcaaaaa cacctctttt cgatttccgc cacattacag aatttcacgg atcgcgcaag 360  
cctgcttctt ttgatttct gacacgtctc gggacttcat ttattgtgca ac 412

<210> 31437  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 31437

tgagatatcc gtaaagatca aagaagaggt gaaaaagtag ttcgtcactg gctttttggc 60  
agtggttcga taccgccaat ggggtggccaa tattgtgccg gtccctaaga agatgggaag 120  
gtatgaatgt gtggactatt gggacctgaa ccaagccagt ccaaaggata acttcccttt 180  
accacacatt gatgtccttg tggataaacac atccaatttc actttgtttt cttcatgta 240  
cggttctcg ggttacaatc agataaagat ggtgccggag gacatggaga agactatgtt 300  
cgtcaccttg tggggaatgt tctattataa ggtgatgttc tttaggctca agaagctgg 360  
ggcaacctat cagcgggcta tggtagcatt attccacgat atgatgcaca aagagattga 420  
agtctacatg gatgacatga ttt 443

<210> 31438

<211> 381  
 <212> DNA  
 <213> Glycine max

<400> 31438

tcaataactg ttcatgtcca ttacctgtag aaatctcaca aatgtctgga cttaccttct 60  
 taaccttaac ctacaaccag gtctctggac ctattccatc tgaattggga aagttgactc 120  
 gccttatggc acttgatctt gccttcaaca atttactgg accaatccct ccaagccttg 180  
 gaaacttgag ttctctccta tggctaacct tttcagataa ttcgttatct gaagaaatcc 240  
 caccagagct gggaaactgc tcaagcatgt tatggctgaa ccttgcaaac aacaaactct 300  
 cgggaaaatt tccttctgag ctaacgagaa ttggaaggaa cgcaagggcc acatttgaat 360  
 caaataatag aaaccttggg g 381

<210> 31439  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31439

aactaagctt gccagcgta ttatggatct ttcaagatta tcaaacgcat atgtcctttg 60  
 gcctatagac ttctgttgcc agcagggtct cgcattcacc tgggtcttca ttgctcacta 120  
 ctcaagccat ttcttcaaga tgttgacaat caactcgcgc cacttccact cccaccaacg 180  
 accttgata accaactgt gatctcatcg ttagctattc ttagctcgcg tcaggaaggt 240  
 ccagatgaag acatgtatct ccaagttcta gtgcagtgga agggctctca cgtagacgac 300  
 acctcgtggg aggactgggc cacattgaag ggcacctatc accttaagga caaggtgatt 360  
 nttgatgagg ttgngaata tagaccaagc gggtcacaag cagtccatac cgagaggccc 420  
 acaagaaaga tcacaacacc tcga 444

<210> 31440  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31440

agaattatac aataacactt tttgcccgcac catgtaagcc ttcttaatta tcatgctatc 60  
 atggaacttc ttggtctttt ctttgtagaa cttggcattc tcgtaagctt ctaggaggat 120  
 ctcatctaac tcaactcagtt gcaactttct ttcctcacca gcttgatcca tagagaagtt 180  
 gaaggtcttc actgcccagt atgctttgtg ctcaatctcc actggaagat gacatgcctt 240  
 tccaaagaca acccgataag gagacattcc tatgtgtgct ttttaagaag tcctatgtgc 300  
 ccaaagagca tcatcaagcc tagtactcaa atctttcctg cttggctaca caatcttctc 360  
 taaaattctc ttgatctccc tgtagagat ttctgcctgt ccattgggtt gtgggtggta 420  
 tggatggat accctgtgcn 440

<210> 31441  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 31441

tgaatatatt taatagtact taacaatata cgggatactt ttatacctat aagtacgtgg 60  
 cactccctaa aattgcccta atagtgaaca atttgaatta ttacctaata atcttaggtt 120  
 cagatttcat taccgtaata ttataaaaga aagtaatagt gtaggactta ttgttcttca 180  
 acttatttat acatatcttt ctattttaat ctcaatttaa tcaaatagat ttttctttc 240  
 cttgtaatat tgatagacgt actttcttac aggaaaatta agtaaaatat ttcaaataatg 300  
 tggatgaacat tttctaaaaa agacagataa ttataggatt attactagca ctgtatgcac 360  
 caaatcacia tctattctgc tgaaactaaa gaatcagata taatgaactt tgtgaaattc 420  
 ttgacagtgt gtact 435

<210> 31442  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 31442

cacttaaagc tcttcgtgca atgaactcta actatctacg ccattaatgc ttacattaaa 60  
 tgcattggtcg ttcttcatgc agagagatca tgttgataga ttaacgtgac aaacacttca 120  
 gccgaaaagt cacttctttt atcaaacttg atccgcatag tgaaacgccc ttgatcaag 180

gtcaacactc tcaaattatg gacttcattt attattcata agattttgac ttgatagata 240  
 aaagaatctc aaacgcacag tattgaataa aggtcttaaa tgcaacacct acatgctatg 300  
 tcacatcatg tatgtgagag acatcatctt gaactccaaa cgatgagata cagatcatga 360  
 tccggccaca cactacact 379

<210> 31443  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31443

tccatcaagt ggtaatcaga gcagaagagc ttcaagtagg tgctccttaa acctccatta 60  
 attttttggc ttaccttctc ttccattatt ttttcttcat tttttctcca cgtatctcct 120  
 caaatgtctt gtgctaaatg ttcttaacat gattcttttag agttttcacc gattaaactt 180  
 gctagagaag ctagatttta ttttctatgg ttcaaatttc ttgttcttgt tcttgaacca 240  
 tgaattgtgt tgagtttaag ttcttttgag ttttgtcttg ttattttttg tggctgaaat 300  
 ctaaaccata aaattcttac aaaaatatta aagtagaaga aaacctcaaa aatctagagt 360  
 gacttgttca cctattgtag ttntgtcata gaagtcattg ctagtcatga aacttgtcac 420  
 ataagatttc ttatg 435

<210> 31444  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31444

ttntaactct taatattatt ttttcttata aaactgcaaa caagtgcaat tacattccat 60  
 ataagcatat gctctaaata aacagctttt tagctcttag tattctaact tgatgcaata 120  
 aaataattga tgtttgcttt tgggtattat tcagataata ttttttgtaa aaaggtttta 180  
 aattgaaaga ataaaaaatt tcatacatga gtataaacia aagattgttt tgtagataaa 240  
 cagagtgata tattacaact tcaacaaaat cattcaaata atatggcctc aattttgatg 300  
 tgcattaaag aacaaaacta cagaaaactt agcacattca agaagcatag ctactttcat 360

atttctgctt gttaatgttc cctctttttt ttgttccgtt attttttatg tcaagcatag 420  
attntcccat gt 432

<210> 31445  
<211> 444  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31445

ntataagcgc gggctctggga gacaaaggtc aagtggctgc gatatgcaa gatgatgttc 60  
cgagtgcatt ggatttggtg cgaccatgcc ctctgattt ctagctggga aattggcgag 120  
tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180  
ctctatagtt aggcctaggc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240  
ttttgaattt ataatacaag gatctttctt catctgttcc tacgtctcta cccattctca 300  
ttcatttgca tgttaacttc tttatttctg aaacggaaga tccgatgacg agtccccga 360  
aggtactaat acctgggacc cgcttatcaa ctctgagaaa gaaacgaatc aaacggaaga 420  
tgaaggaac gaggatgtgg gact 444

<210> 31446  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31446

tgtagaattc accccaattc cagtgtccta tgctgacttg ctcccatatc tacttgataa 60  
ttcaatggta gccataacct tagccaaggc tcatcaacct ccatttctcc gagaatacga 120  
ctcgaacgca acgtgtgctt gtcacggaga agccccgggg cgttccattg agcatggtag 180  
ggctctaaag cgtaagggtc aaggtctaatt tgatgcgggc tggctgaaat ttgaggagaa 240  
ttgcgtgtaa atcttgacat tgacaagaga tgccacacat ggggcaattt tgaaagctgt 300  
tgtaggtgt ccctaatacgc tcatcagggt ttccaagttt atgccattat tgtaaaccac 360  
agctacaatg ttaaataaaa tggataaagt tgatatcttt gtccctcacc ctctcacaaa 420  
cgcatgtttg cttattcaac tntcatcg 448

<210> 31447  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 31447

cttgcccttg caattccaag acactagtga gcttccaagt atatgacatg taccatttgt 60  
aattttccta tctaatttgc atcttccaaa atcagagtct gaaaaacctt ttaagtttaa 120  
ggaagttcct ttggaatacc acaaacctac attgggttggt cccttaagat acttaatgat 180  
cctcttaaca gtagttaagt gagattcctt tggattggac tgatatattg cacataatca 240  
aacacttagc atgatatccg gtctacttgc agttaggtag agaagtgatc caatcatacc 300  
tatgtatctt gattcatcca ctgatttacc tttctcatct aagtcaaggt aggttaatgt 360  
tgtaacgcct ttaaatttca ataactgaaa atagatgttt gatgtatttc ttgtgttatt 420  
tgattactgg gattaattgg atgagttg 448

<210> 31448  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 31448

tctagaagga gatcaactgg atgttctatg cttcttgaag gtggcagtcc atgaggaatc 60  
tccttggaag agacatcttt aaattcctgc aataagggtt gaacactagg agaaacataa 120  
atagttaact gattagaatt atcactctct ctcttttgtg tatcactctt ttctctgggt 180  
gtatcactct tctttttcat attcctttgt ggagcctcac tattttcttt ctcttggtct 240  
ctcttttctc tcattctgat ttggatcatc cacacttctc taggtgatag aggtttaaga 300  
gtaaacaagg aagatttgat caacaaacgt tgcatttgtg tagtccacgc gtccagaaat 360  
aagcgttgag attcatccag ttgatgatat acaccacat tgtcaccagc tcttgccatg 420  
a 421

<210> 31449  
<211> 452  
<212> DNA  
<213> Glycine max

<210>	31450
<211>	437
<212>	DNA
<213>	Glycine max

tattgttaag	tttttagtca	ttaacatgct	atctattaaa	tacactatca	aaagactatt	60
ttattttaat	ccaaatattt	gtgtcaattt	ttttaggtta	ttttgtatca	atttcttaaa	120
tacgaagtcg	tgtcgtgcg	aatctatcaa	agtaatcaaa	ttaaactacta	caagtcatac	180
caacaatgat	ggattagtgt	tttagtattg	cataattata	taattattaa	tctgtttcat	240
ttcctccaag	tcaaaatttc	actttatagg	ccaaaatata	tatgttcctt	ttatctgtct	300
ttcttaaaca	atgatgaaag	gtctgagaaa	cattttattg	acattgacta	cttacgctta	360
gaccttggat	caaaacatta	aaaaaatggt	aagtattgat	atacactcgt	accaatatga	420
ggtaagggcc	cccat					437

<210>	31451
<211>	438
<212>	DNA
<213>	Glycine max

ntagatagct tgttgtaatc gattacgaca accctgtaat cgattattac agagagtttt 60

gcctcttgaa gaaacttttc taacttagaa acttttcttc acactaatca tgatgatgca 120  
 tgatgcaata caaatatcaa atgtactaag atgcaacaac caagataaca accaatacaa 180  
 atgccactca agggatttag gcatgtaaaa gtgaaaactt cttcaagctt ttctttgagc 240  
 ttcaagcttt agcctttaag ttgttcacca tgttgctcct tctatctcta acactgcact 300  
 ccattccatc ccaccatggt tgtccttaac cagcaaaaac gactntgtta tcctttgtgt 360  
 agaccaagca atgaagtaca taaaatttgg gataaatata cttggacacc tagtangaga 420  
 gagagagaga gagagaga 438

<210> 31452  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31452

cctttcattn taacccttag aacttcccag ttcaaattgt catagataaa gnaatggtga 60  
 tgttcaaagg acactttaaa tcccttttta atcaattgac ctacacttag caagttttgg 120  
 tcaatggttag gtacataaag aacatctgat attaatgtga tacctgaaca tgttgaaatt 180  
 gcaacagttc cttttccttt tactgaaata tagccaccat tcccaattct gacctttgag 240  
 acattanttg gcttcaaadc cttgaataga gtcttatcat atgtcatgtg gtttgtacaa 300  
 ccactatcaa tcaaccaact ttcaattgat tcaactactca agaagcatgt ggccacaaac 360  
 agttgatcct cctcttcttg attagcaatc tgagctccct catcatgat 409

<210> 31453  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31453

tgtgactcct ggcaatttct ttanaaaac tagttactta ttaagttttg acttttgaaa 60  
 aaatcttcag aaacaagtca tttgaagaat tgtgactttt ggaaatgtat ttttcaaat 120  
 caatcactgg taatcgatta ccattaaggt gtaatcgatt acacatcaac aaatgtgact 180  
 ctttatcttg aattttgaaa attaaaacat ttagaagctc tggtaatcga ttgcaagtat 240



taacgtagat atgcatgagc taatgtgaac gctctcttac cctttctaga attcaatcga 420  
catagacacc tcgtagttct tccatctcat gatgaaaggt accacaaata gtctcgactt 480  
tatttcg 487

<210> 31456  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 31456  
agagcagagg catcaacttt aatgttcatt ttattaacat tcggttagcc cataaaccgc 60  
tggcatgtta agacacgcgt tataattctg cataaatttt acattaatat gccattttga 120  
atatgcgata tatgtgaaag gaacttctaa tcacacctgc cgttataaaa caatattatt 180  
tattctgaag gtatagaatg gtatgataat cgttgacgtc ccactggcgt acttagaccc 240  
ttccttatat attaaagttt tacaacgtcc cctgaacaca acatctttta tgtatgtcga 300  
cca 303

<210> 31457  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 31457  
cttgcttgag tgatgatcca tgctctcgcc catctatgga tcatgtgtct aagaagctta 60  
tgagagggat atcaccttta gcacaccagc tccctatgaa tagactctgg acaactatct 120  
ttaaggacta aactaattca cgattttggt gttcttggtt acttatttat acaccttata 180  
tcctttatct tttgatgtaa gcttgctcgt gttgtcattg taatacacca tgtataagtt 240  
actaaaggtc gagagtaact agattgtccg gttcatatac tatggcgatt gtgagaatga 300  
attggccat tatctttatt gggaaatgct tgggtgtagag tgagcatgca tatgtacaag 360  
ttagtggtga gaataacata gcagtacaaa tgattgactt ttaaatt 407

<210> 31458  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31458

tccttaagaa gcttcattga gaagctagag cttagctaca cacaccctc taatagctaa 60  
gctcacctcc ttgagatgaa aagctagagc ttagctacac ataccctct aatagctaa 120  
ttaaccccc tgccaaaata catgaaaata caaaaagtc cttactacaa agactactca 180  
aaatgccttg aaatacaagg ctaaaacct atactactag aatggccaaa atacaaggcc 240  
aaaaagaagg aaacctatt ctaatattha caaagaagag tgaaccaac cttgggacat 300  
gggctcagaa atctaccctg aagttcatga gaaccctang gccttcttta gccactctag 360  
ctcaatctc ttggagtctt ctatccaata cccttggggg gtaggaatgc atcatcaatg 420  
ctatgcaatg caatcaatat gcaatatg 448

<210> 31459  
<211> 449  
<212> DNA  
<213> Glycine max

<400> 31459  
taagagcaaa aactacggct actaactcaa gatcgtgtgt gggataattc ctttcatgta 60  
tcttaagctg tcgagaagca taggccacta cctgtcccg ttgcataagc actccacca 120  
aaccatctt ggacgcatca caatacacca caaaagattc actcgggtta ggtaacacta 180  
aaactagtgc agtgggtaac ctttccttaa gggtagcgaa actactctca cattgggcat 240  
cccacacaaa aacttgacc ttacgagtaa gcttagtcaa aggtaaggct agcttagaaa 300  
aaccctctat gaatctacgg tagtatcctg ctaagccaag aaagctcta atctcaaca 360  
ctgacttagg actctcccaa ctcatcaccg cctctacctt ggaaggatct actggctatc 420  
cctccttaga tataacgtgc cctaagaag 449

<210> 31460  
<211> 447  
<212> DNA  
<213> Glycine max

<400> 31460  
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tcaagtgtaa	catgtgactt	aagtgattaa	tattaacatt	tgtttaagga	tcaaaatgat	180
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atttttctta	attttaagga	ctcgtgtaat	agtgttttaa	cactttcaac	actaaaagtt	300

aaggtgattt acccggtgtc tctaccttag tatacttcta tcaaagcatg aatatattac 360  
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<223> unsure at all n locations  
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 ggtacttagt ctagccgaat acttgacacc ccttatagta tcagatactc ggcctaataca 240  
 aatatctgat cccttggttaa atactcggtc taaccaaata tcgaatatgt ctaatgttat 300  
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 <212> DNA  
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<223> unsure at all n locations  
 <400> 31464

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 tagggctcan gattcgtttc ctctatttta atcaacccaa tgtttccaaa atatgttctt 240  
 ttatcaatth gtgcattcat ccgagtcctt ttcgggcgtc cggggaaatt tcacagcatt 300  
 cacccttcag gtgtagacac attttccaaa aattgggttat gatcaatgaa ctttttcaaa 360  
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436

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<212> DNA  
<213> Glycine max

<400> 31465

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attacgggac tcagtcagac aaccgagtaa aaagttattg tcgtttgaat ttgctcagag 180  
cttcagtatt caattctgag catctcgaca tattacggga ctcaatcata catccgagta 240  
acaagttatt gtcgtttgaa ttggtgaga gcttcgataa tcaatttcga gcgtctcgat 300  
atattacggg actcagtcag acatccgagt aaaacggtat tgctcgcttga atttgctcag 360  
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taacaagta 429

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<212> DNA  
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<400> 31466

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ttgtacatga acaaacatta tatcatgcgc tgaccgtgcc aaacgaacaa gcgaagtcatt 180  
tgcataattg ttacactaac tatattcaat gtacctgaac aaaatgattt ccaaacacgt 240  
gaccgacaca tatgatgcgg tggccagaag agtcagggtg tggttgactt ctaagaggga 300  
aaaatgtcat gctttgttgt tgggacaacg atacaaggat tacgttatac cgtgaagcaa 360  
tcacatatcc catgtctgtt atatccatcc acttgccac actaacctga atgaacaaaa 420  
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<210> 31467  
<211> 430  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31467

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tgctgattct ttttccgtaa cgttacggaa ctttacgaat tctgtaacga tacttgtttt 180  
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gaacttcacg gattgtgcaa caatgctttc ttttgacttc cggcctgtca cggaacttca 360  
cggattgcct aacgataggt gccaaagtacc tcgaagcggg gaagcanagg ttgcatgcta 420  
tcaaacaatg 430

<210> 31468

<211> 435

<212> DNA

<213> Glycine max

<400> 31468

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gttagaaaac aatgaagacc acaatatcat ctttttttat cattatttta aagtactaat 180  
ttatttcaat acatgtgaaa tttttttaaa aattatagtt tatacgctat ttatttaaaa 240  
cataatcttt atattataat acaaaaatat cactatttca tactcataca atcagtatga 300  
atataataaa cactataatt tgtctaatta ttattatata tatcattatt atataacaat 360  
aacatttaca atagtcgtat tctattacta ttagactcaa ataaaaatca aaatctcaac 420  
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<210> 31469

<211> 359

<212> DNA

<213> Glycine max

<400> 31469

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<400> 31472

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aagctcatcc ccatgacaaa taacatgaaa attcaaaaaa aagtccttac tacaagact 180  
actaaaaatg ccccgaaata caaggctaaa accctatact actagaatgg tcaaataaag 240  
gcccaaccga aggataaacc tattctaata tttacaaaaga taagccggct catacttagc 300  
ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggccttcc cttggatctc 360  
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<210> 31473

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31473

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taaattggga gagtttgata caatttatac aagttttata cacaaaagtt aatcgttttc 180  
accgactaac agttcattac atcacgtcag gatacaactg aaaataaata acaagtgcac 240  
cagtgattct taattatgtg agtcatcagt tcgaccatat gctggcaata atcgaagaga 300  
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ttcaggagtt cttgactctc atttagcgtg agcacaacc tattcatcca cttcatgctn 420  
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<210> 31474

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31474

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ctctcttggt ggactaggcc caattgagac agccctctta ggttttagact aacttacact 180  
gagttntgtc cgcagatccc tcttgtaaga ctagactcag ctcaagcagc ttacgaaagt 240  
ttagcctaatt ttagcctaag cttcatccgc agatccctct tataagacta agccttagact 300  
aaacaacatt attgtaacaa cataattaan accaaaactt aatccgcaga tccctcttgt 360  
aagactaagc tntgatcctg cttcaatcaa gttctatggc aacagtacat t 411

<210> 31475  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31475

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tcatcaaagt gaccacaagt gttgaacatg cttctattta tagactaggt agcttccttg 180  
agaagctttc ttgagaaaac ttccttgaga agcttccttg agaaaacttc cttgagaagc 240  
tagagcttag ctacatacac ccttctaata actaagctca cctccttgag aagcttcctt 300  
gagaagattc ctatagaagc tagagcttag ctgcacacac ctctctaata gctaagctca 360  
cctccttgag atgagaagct agagcttagc tacacaccn ctataatagc taagttcacc 420  
cgcattccaa aaatacatga aatatacaaa aaagtcctta c 461

<210> 31476  
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<213> Glycine max

<400> 31476

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gttttgtttc attggataac ctgctttggt ggctatgctt catgatgtat tttgggccat 180  
acttgatgta cattgatatt ggtaaagtgt gacatgctga tgaaatgtgc ttctcaatgc 240  
tatagacaaa aaaaaaatt cc 262

<210> 31477  
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 <212> DNA  
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<400> 31477

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 cttcctgact gttctaaact ttagagctaa aatgtgatgc ctctggagtg ggagttggag 180  
 ctgtattggt acaaggtggg cactctattg cttattctaa tgaaagactc catagtgcc 240  
 ccctcaacta caccacctat gataaagagc attatgcctt ataaaagccc tgcaaacatg 300  
 ggaacattac cttgctttca aagaatgtgt cattca 336

<210> 31478  
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 <212> DNA  
 <213> Glycine max

<400> 31478

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<223> unsure at all n. locations  
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tcaatcgcg cgcacaagcc cattgacacg cggagattta cgtcatcttc ggcgctcaca 240  
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<210> 31480  
<211> 398  
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<213> Glycine max

<400> 31480

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ctttctacac agatgtccga ttgggtcacg taatatatcg actcgctcga aactgaatac 180  
cgaagctgag agcaaattca aacgacaatg acttttacct cggatatccc attgagtccc 240  
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<210> 31481  
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<213> Glycine max

<400> 31481

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cccaaaacca agcttgacca atcaccgacc aaccgggtca tagtctgtct gtgtgaacct 180  
gtgatgtacc taaacaggcg atctctgcc agtctataga tgaaacgaac taataccaca 240  
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<210> 31482  
<211> 264  
<212> DNA  
<213> Glycine max

<400> 31482

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 tctgtaacta aaccttcaca aggagacata ggcaaccctg gaactctgcc aagccaatgc 180  
 caaggtttat cacaatgttg gaattaaaat cagtagcacc aaaaacaaac ctcaaaagct 240  
 acttatgggg cattttacat acaa 264

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 <212> DNA  
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 <400> 31483

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<400> 31485

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<210> 31486

<211> 259

<212> DNA

<213> Glycine max

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<210> 31487

<211> 302

<212> DNA

<213> Glycine max

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<223> unsure at all n locations  
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 agtccaaggg ctgaatctca acactttggt actgtacatg atgacaatcc ttgtctagct 300  
 cacatgcctt actttggagt cattgaagaa atttgggagc ttaattatct aaaattcatt 360  
 gtctgtgttn ttaagtgtaa gtgggttgat agcaatatca atgtgcanat cgatgatatt 420  
 ggatttactt tggtagatct ga 442

<210> 31490  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31490

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 tgccaaaaaa agagtctcta acttacatta cttccattga ttcatagttt tgtttggccc 180  
 ttttttcctt aattttttta aactttaatg tgacttggtg gataatatat ggagtagagt 240  
 ttggatttag ccttgtgtca tctaaagagt gtgttattgc ggcgttcaat atgcacgttc 300  
 cacttcgacg cttccattnt cacgacagta acgtagaagt aacaatctgt taggttaaaa 360  
 atattttgta aata 374

<210> 31491  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31491

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 gaatgggtat ggttgaaggt aggggttttg gcaggtagag gcagccatgg acagcangtc 180  
 gaaccaagtt gtttaggaata gaggactagc taacgacact aacctatatt tgatcattct 240  
 tctctgattc ttatttcctt cctagggtat atntatagtg atcatacaac ggataaggct 300  
 tgcattcatg acccat 316

<210> 31492  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 31492

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 gcctactgca acacaaggaa agagtgcatt aacttgagtc agctattcgc aggagaagag 180  
 atgccgaggc cggattcaca gtttcgagtg gaaaatactt ggcattctacg aagcaggtga 240  
 aaaaagcaat tcggaaggcc ttatgaaatt tgaaaggatt caagaatgaa ctcataattg 300

cttctctcaaa caaagacaac gagacattgt ccatgcttag cttcttaaaa gaatcagaac 360  
tagtcaccgt gagctcatta aaagccttct tgggtgttatc act 403

<210> 31493  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31493

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cagcaaaaaga gtcaattgat gcctctagat gagccagttt attgacatat aattattgta 180  
attaatatgt ctatgcagca attaattcta catgaaggac aacttagtag gcacttgatg 240  
cacaaattcc cgtttatgac tcatgctttc tagatgtggg tngaagtgtg tgaaagtatg 300  
aggtttggtta ctgataaata caattntatc actgcacaag attacattca aattgatnta 360  
atgccccaat aatttatctg gtgtcctgan aaaatatgaa gactcatttt ttttctctct 420  
tttcaatat 429

<210> 31494  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31494

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taccgaatat ccaaaaatac cctcaatacc tttaagaatt taaagcaaac ctcttaaaaa 180  
gtattcaggt atccggctag gccaaatact tgaatgctta aaatccttag gcctataaag 240  
cctctcaaaa gtattcaggt atttgactac gtogaatacc tgagcactca gaatcattag 300  
gcttataaag cctctcacia gtattcaagt atatggtaag ctgaatacct aaactcttag 360  
actccttagc tctatanagg ccctaaaaat attcatgga 399

<210> 31495

<211> 431  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31495

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 ttgaatcagt aagtgaatt gatgtcatta ttgtgaaaaa gtttgcatta taagttcttt 180  
 aattacattc ttttacttca agacacatng acaacttctt gttatgtgtc cacgggacaa 240  
 tattgttggt tgattctctt ctttacgtaa aaagcctgat gttcacatca aggttgcaat 300  
 taacaggtta ttggtaaaat tataacaaat ntattgttta ccaagtgtag tatagcaaca 360  
 aagtatcttt cgttatatac gtttttggtta ttgtggaaac tagtgcaatg aagaaattat 420  
 ccagtaagtt g 431

<210> 31496  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31496

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 aactctgtca aattcattgg acgatatact ttgcacttaa atagttcatc ctttgcctag 120  
 caaagttaat ttgtttatth gagcttattt gttattcact ttattgagtg tgtgttcttt 180  
 gatatttcag tttgcatcag actntggcct ctctgattaa gtatttaaca atacaaagga 240  
 aatgaattag tcaaagaaaa aaatggaaaa aggttactct tccaataaat ttcccttggt 300  
 cacagggatt aaatatgaat actagaaaga cagaatgatt gtgcattttg aatccatgca 360  
 aattgacatg tgggatgttg tgcaaaatgg acatcatatt 400

<210> 31497  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31497

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 atacttacgg aacattgcca ctgtcgaata gcgctggcaa taagagcgat gcggccatgc 120  
 tttcgtagta ttactgatca catggctatg ctcatcatgt atgcagcgcc tgctacatct 180  
 gaaatgatat ctatctgcca acatcgtgaa tttatcttac ttctttaatg tct 233

<210> 31498  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<400> 31498

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 tctatcatat gctgacaata cccgagaagc ccatgaatct cttcgggggc ggagtaggtg 180  
 tctgccatcg ccttggcctt ggctaacaat cggggaagtt cttgactccc gtcaagg 237

<210> 31499  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31499

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 gatgaactaa gggacgtaaa tatggccacc gatgaagcct tggaatgaga aaccaagaag 120  
 gcccgaaagg aagaacacga ccaaaacaag ttttgagggg ctttataggg cagcaatagt 180  
 gagctcaaac tccgaagagg tgaaaggaat catcacgggt caaaggcatg atctggaagg 240  
 acgagctaaa ggcttgccctt angtcgaaaa gaaatttgct ccaacagtta aggtgagaat 300  
 gaagggaata tgtgggcat catcgatgag tgcaaagaga agctaaatct agcggcgact 360  
 cacgagcaaa ggctagagga tgagtacgcc aagatatcag cagaaaggga agcaaggga 420  
 agggtaattg attcattgca ccaagaggca gcaatgagga tgga 464

<210> 31500  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31500

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atatcattta cgacttaaag cgctagatga gagtttgaga ggaaattcta acagtattaa 180  
tcgctgtacc ccagagggaa caagtatgag caacagccct tctcagcgtc atccctacgc 240  
ggagctgata actactcaga actaacctc 269

<210> 31501  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31501

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tcaaggctctg agagaccata caagtttcct aacgatttct aattatgtgg gccattaagt 120  
ctatcatatg ctgacaatag ccgagaagcc catgaatctc ttcgggggcg gagtaggtgt 180  
ctgccatcgc cttggccttg gctaacaagc agggaagttc ttgactcccg ttcaggttaa 240  
agcaaaccga tccatccaca tggttgcctc ttggtgtaaa gagtcgatca ccctttctct 300  
agcctctttt ttcgcgtata cttgagcata ctcgtccgcg atcctatg 348

<210> 31502  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 31502

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ccaattgggc ctggatgcta ttgaccccc tatgtttact aaatacacc ccttgccctt 120  
tgttggtgat tcttttttcg taaagatact gaaactgacg gattgcgcaa cgatacttgt 180  
attctttgcy taacgtcgca aaaccttgcy gattgcgtaa tcatgcactt tggtgactta 240  
cgaaatgtca cggaacctca ctaattgtgc aacgatgctt acgttcgatt tgcggtgtgt 300  
cacggaacct tactgattgt gcatcaatac ct 332

<210> 31503  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31503

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 tgtattggca atcagaattg ccattccttg gattataggg ttgaaccaag ctcatgcttt 120  
 tacanaaagg ttcacaaagt caagttgaaa tatggaaaga accgtcctgc aaaattgggg 180  
 caaaagatga attgagtcac atcactgctt cgtctactgc caaacatatt taggattgta 240  
 gatgtccttg gtacttccag ttccaccttg acaaagatgt catggaccat gttgaaaatc 300  
 taaattgatt caaccccata tcctgcgtaa aaattcccaa tacttcgact gtacatcatt 360  
 cgcattcatn cattgctttc attggntgca ttgctcattg cattctttct ttgaaaata 420  
 aataaaataa atgaactatc 440

<210> 31504  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<400> 31504

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 gaaggtcaat aacctatatt ctataaaaca taatactata cctgactctc gtaaaactta 120  
 attaggctaa ttccatcttt atatcatgtt ttgagtagca acaattctga atttatagac 180  
 tatagtctat ttacataga attatactca atggcctata atactattat cccatgtcga 240  
 gagaaagtag atctatatta acatttaata taaaactagc ttggaaccc 289

<210> 31505  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 31505

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agagcatagg cagaaaactc tgccaaaaca ccaaccaata gtcacagctt ttaccactca 120  
aagacccag taacaattcc ttcgttccaa ttcgttaacc gttggatcga ctccaaaatt 180  
ttactggaag tctatagtgt ataagcctgc attttgaccg ctgggatata ctagcaaaca 240  
tccagaactc attctgcaact aaactttcca cagccaacca cacacaagca tttttctgca 300  
cttgtgcaaa attctgctgc acaatttcac agcaaaaact ctgcataagt gcagatttcg 360  
aaaatcaccc ttcctctcat ccaatcttgc caaatcaaat ctacaagtcc cacatatgta 420  
taaacatgct taa 433

<210> 31506  
<211> 363  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31506

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cccacttattc ttgcggtata cacaatcatc aactatattt gcctaaagat catatgaagt 120  
aatgacatga tggaacttgt tgtagcgttg tctggagact tgattcagac catagatgtg 180  
ctaatttaga atgcaaacca tacactttga atgacctgat acaaagggtt aggggttgc 240  
catataaatg gggtcttcaa tgcacaact tataaatgcg agcttaacat ccatatgatg 300  
tagctctaaa tcataatgag ctacgagtgc cattattggt ctaaaagaat actttaaaga 360  
tat 363

<210> 31507  
<211> 375  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31507

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cttaccctct gaagcacaaa aagaagagaa tgaatatctc caatcaaagc ataaaggaga 120  
aggaaaattt ccaatcaaag aggaagcaaa aaaatgaaag aatgaaaatt tccaatctaa 180  
ggaaatagag aggaaggaa attcccaatc aaagagtggg agaatgcaca tagaagagaa 240

agaanattgc caatcaaaga atgggagaaa gaaaaaaaga gaacgataag attgacagag 300  
agctcatgat caatgatcga aagagaacaa aagacatgtg cagagatgtc tttggaccac 360  
acaatatctg aacaa 375

<210> 31508  
<211> 303  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31508

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agattggatg aggggaagtg tggttttcga aatctgcatt ntgtgcagat ntttgcctgtg 120  
aaattgtgca gcaggatttt gcacaagtgc agaaaaatac tangcatttg ctggttgtgg 180  
aaagagcagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg tcaaaatgta 240  
tgcttatgta ctagagactt ccagtagaaa tttggagtcg atccaacggc taacgaattg 300  
gaa 303

<210> 31509  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31509

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gcacaacaag ttttccacat ccacaaatca cgtataaacc caccatcccc tgttgccttc 120  
ctccaactga gctcacgtac tcccacgtag cccatatacct cgttcctctc aacgccgggt 180  
cccatcaat cctcccaagc ttccccaaca tccaggaat tcaacatcca ctcatcacan 240  
actaacaac caagcaaac agagcanagg cagaaaactc tgcccaaac ccaaaccaaa 300  
atcacagctc tttctcactt 320

<210> 31510  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31510

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cagcgggttc aacacctgaa cactgtattt gggaagaccc ataagaagga taaaagtcag 120  
agttgcatat ggaagaagag gtccattttc tttgatcttc cgtactgggtg tgatcttgac 180  
gttagacatt gtattgatgt tatgcatgtg gagaaaaatg tttgtgacag tgtgattggg 240  
acgctcctta acattcaagg caagacgaag gatggcttan ataccctgca agatctagct 300  
gatatgggta taagagcaca gttgtatcca aggtctgatg ggaagaaata ttacttgccc 360  
ctagcctgcc atactntgtc caagaaggag aagataagtt nttgtcagtg tcttcgtcgg 420

<210> 31511  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31511

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taattcaatg gtagccataa ccctagccaa ggttcatcaa cctccatttc tccgagaata 120  
cgactcgaac gcaacgtgtg cttgtcacgg agaagccccg gggcgttcca ttgagcatgg 180  
taaggctctg aagcgtaaag tgcaaggctt aattgatgca ggctgggtga aatttgacga 240  
gaattgcgtg taaatcctga cattgacaag agatgccaca catggggcaa ttntgaaagc 300  
tgttgttagg tgtccctaata gactcatc 328

<210> 31512  
<211> 179  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31512

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atacttactt gatctctggc attcttacta gcttatttga tacgtgactc tgatgcggat 120  
gctacaatcg ttgaaaatct gcatgcttgt ataaagcagt ggattgaagc agtccatga 179

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agcttggtgct	tgtttttattt	aaatttcctag	gatcatgagc	aactatgtgt	gtcctactat	60
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tcctattagc	gcttctttaa	cgtcttgagc	tggacgcgtg	atgacttggt	gatcacagac	180
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<223>      unsure at all n locations
<400>      31514
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gtaacaattc	cttcgttcca	attcgttaac	cgttggatcg	actccaaatt	tttactggaa	180
gtctctagta	caaaagccta	cantttgacc	gttgggatct	actagcaaac	atccagaact	240
cattctgcac	tgctctttcc	acaaccagca	aatgcctagt	atTTTTctgc	acttgtgcaa	300
aatcctgctg	cacaatntca	cagcaaaaaat	ctgcacaaaa	tgcgatttcc	gaaaccacac	360
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<223>      unsure at all n locations
<400>      31515
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tatcagcttc tctgagctta gtcttctttg tctctggaaa attaactggt tggtcatttg 180  
cattccaaca attccttatg atataagcta agtcaatggc tggctcttagg ttttcatagg 240  
aggtaagggc atcagatccc actccccctg atctacanaa ggctgtgatt aaagctggga 300  
agcctaatacg agaaaagtta gactgagcga tcatgggtcat ttgtctatac atcaaaccac 360  
cgatgttcat gtccatcctt gtgaatatgc cat 393

<210> 31516  
<211> 440  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31516

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ggcagccatc taacatgccg agaatccacc ccagcattgt atgccaaaaa ttggttgtct 180  
gcccttaggc caaacaatc tcacaaaaga aaaggaagat gggagaagaa ctacgtaaaa 240  
caattagggg agagatcgac aagctactca attcccaatt catcagagaa gtcaaatact 300  
cgacttggtta ggctaacatt gtcatggtga ggaaggctaa tggaaaatgg cacatgtgca 360  
caaatacac caacctgaac aaagcgtatc ccanaggcgt gtatccctta cctagcatcg 420  
acaagctagt ggacgatgcg 440

<210> 31517  
<211> 397  
<212> DNA  
<213> Glycine max  
<400> 31517

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gctttaggag aaaccataaa aactaaggta gttcctaaac aaaaatcaat tgaggaaact 180  
tcgccaagaa tccccattga aaaaccttta ttcaaacctt tcaaagttag tgagaaggct 240  
aaaagaaaaa ttagggaact tagaaaaact aaatccttaa ttgaaggcgt aggtgacaac 300

catagtgaat tactaaacaa gattggtagt ttacttaaag tcattccaga tccccccaa 360  
gcctcgaaa atacttccaa aatggtaaca agaagta 397

<210> 31518  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31518

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gtctctggat cagctgcttt gaggacttct ggatgggatt ggaaccatag ttttacttgt 180  
tctggatccg ctttggatga gtcaaattgt gtccaccatt ttacaaatgc gtgtctttgt 240  
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ttgtattgtt tcttanattg ngaaaatcct tgttggaccg tttctgggaa tatctctggg 420  
attggccana gaatcccacc attg 444

<210> 31519  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31519

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tttgtactcg gatgtctgat tgagtccegt aacatatcga gacactcgaa attgaatgtt 180  
gaagctgtga gccaatcaaa acgataataa cttttttcac ggatgtctga ttgagtcceg 240  
taacatatcg agacgctcaa aattgaatgt tgaacctctg agccaattca aacgacaata 300  
actttttact ctgatgtctg aatgagtcce gtaacatatc gagacgctcg aaattgaatg 360  
ttgaacctct gagccaatca aacgacaata actntttact cggatgtcat gattgatgtc 420  
cgaacatatc 430

<210> 31520  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31520

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 tattacggga ctcaatcaga catccgagta aatagttatt gtcgtttgaa atggctcaga 180  
 gcttcaacaa tcaatttcga gcgtctggat atattacggg actcaatcag acatccgagt 240  
 aaaaagttat tgcgtttga attggctcag agattcaaca ttcaatttcg agcgtatcca 300  
 tatattacgg gactcaatca gacatccgag taaaaagtta ttgctgtttg aactagttca 360  
 gagcttcaac attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga 420  
 gtaaaa 426

<210> 31521  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<400> 31521

aggtgaaact tectgctttt attgttgacc acagagtggg acctggagat atgtcgcggg 60  
 ggtcaggaga ccttggggac gtcaagtggg gtgctattgc ccaaaaccaa acttgaccaa 120  
 tcccgaacca acccgggcat agtcggtcag tgagaacatg tgacgtacc 169

<210> 31522  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31522

tatgcgccat atttctacg aacgttcact tgcacaagac atcctataac taagaaaaat 60  
 gcacccatat acaatcaagg tagcttcatt acctagatta ttacatgta cttccaaggt 120  
 gtatttggtta ttacatcac acacngcctc ttggctaaat ttacatacat gcatacctca 180

[illegible]

<400> 31523

<400> 31524

```
<223>      unsure at all n locations
<400>      31525
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13144

ttattaaacc ccttctcatg taggttttga ctctctttat ttgttattat attgttgatt 120  
gatatgaaac atttattgat tttatcaatg attaactctg gtagaataat ttgttagaca 180  
tctttgatga aatcctctct ctaccatatt ctttacattt agaaagttca agattgtatt 240  
taagaaaatc gagctaaata ctactcaaat taatgatttg tcaagatgat tgttataaat 300  
ctatcantaa ataacttaat agctgaaaat agctaggcac tggcaagatc tccgtgttct 360  
tgtattacct ttattttgc 379

<210> 31526  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31526

agcttatctg tcacttttag cacttcatga cttagcctct tttcacctg aaattgcaca 60  
tatttcataa tttaatccaa tggacatatt ctagagacaa ctttaacaat aaaacaagat 120  
ttatttacac aatcactaca aaataaccat aaattggggg aactatacaa gttttggaaa 180  
atgggttcta tataaaaagt attcgtataa gacgactaac aaactcccc aaatttatag 240  
ttttgcttgt cctccagcaa agaaagaaca gttcacttgt cctcaagtga caaactatag 300  
tgatcacttc aaatggtgtt tgcttcacaa ataaattcaa ccatatgaac tcgatatcat 360  
ggactgcttc aatcaattga ttntcacaaa catgcagct 399

<210> 31527  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31527

tgcttgtggn gcttctatgg aggctggatc tttgagcttc aatgtggtcc tttaatggtg 60  
attttccacc atggagatgc agtgtaagac aaatgagaag aagtgaagg aggcgccatc 120  
cactatggaa taagccatgg aagaaagagt ttcaccacca agatgagcct tggataagat 180  
gcttggagat gatgcttcaa tggaggaaaa gatagatgga gagaaagaga gaggtgggga 240  
gcacgaaatt gaacgaagaa aaaagggaga gaagttgaac tttgagttgt gtctcacaag 300

actctcattc atcaaagtta caacaagtgg tacacatgct tctatttata gactatgtag 360  
cttccttgag aagcttcttt gagaaaactt ncttgagaag ct 402

<210> 31528  
<211> 284  
<212> DNA  
<213> Glycine max

<400> 31528

agcatattga gacgcttgaa attgaaagct gaaactctga gacaccacga cacaccatta 60  
cttcttactc agatgtacga ttgagtaccg gaacatatct agacactcga aattgaatgg 120  
tgaaactgtg aaccattca aacgataata actattttca ccgatggctg attgaggacc 180  
ggaacatatc gagacgctca aaaatgaatg gtgaacctct gagcacaatc agacgaccat 240  
aactctttac tcggatgtct gattgagtcc cgtaacatat cgag 284

<210> 31529  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 31529

tagctttgta tatcattgac acagaattct tgggctttct tccaaaaaga acgacatgat 60  
ttaaatgata tcaggatctc caagatatcc ggctcaactg attgtcataa cacggcacac 120  
aattgatagt caagcttctc ccattcaggt cttttatcat ctgagacaga attagatgat 180  
atctccaacc agtcatggtg tccttgacca atgaaccaca ac 222

<210> 31530  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31530

tctaaatatc cgaatcatga tattatngga cggccttatg cataatgtgt ctagttatgc 60  
atatntgccca agtgtgtggt gaattattat tattaaccat tatattggta taaaattggt 120  
tctactaana aatggtgaca attcttcatt ggaaacctta aatgcatata agatgagtat 180

ttttctttta catatgactt attctataca tangtgcat catcatttag atgcctaaaa 240  
 tatgtattct ttgattgcac taacaattca gatactagcg gtgttattac atgatcactg 300  
 attttgctaa cacataagcg ttacgagtgt ccataatata ggatcaaaca aacttcactt 360  
 ttgagaagaa agcaaatttt ttataggact aaatcaaatt tgtgatttat 410

<210> 31531  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31531

agcttttgtc cttngacct actcacctcg atggcattaa ccgccccccc tccatgattg 60  
 gcaagcgggt ttgtttttat gttgggcccg tcctcttgaa aagtcaacca ctcggcctct 120  
 atcaagcttt ggaccttact tttcaaggcc aagcactggt cgatcgagtg gcccggggtt 180  
 ccccatggt atgcgcaggt cgcgctaggg ttataccact ttgggaacgg ngactggaag 240  
 atctttcccg ggaccacat ggccaattgg ttggcaatga gagatggcaa gagttcccca 300  
 tatgtcattg ggg 314

<210> 31532  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31532

ntggatctaa ttgatattct gcacacatgc atacactaaa catattatnt ggcctacttg 60  
 tagataaata aagtagagat ccaatcatal ctctgtattg ctgtggatca acaggttgac 120  
 cggattcatc tttgtctaga tagcaacttc tattcatagg agtagccaag tgttttgagt 180  
 tttccattcc aaacctctta ataagttctt ttcaatactt tgcattgattg acaaagatcc 240  
 catcatttgt ttgtttgatt tgtagtccaa gacagtaatt taattcacc atcaaggaca 300  
 tctcacactc actttgcata tcaatagaca actccttgca caaagatgca ttagtagatc 360  
 caaaaattat atcatcaaca taaatntgta ccaacaagat atcattatct ctcttttata 420  
 tgaataaggt ggcattctact t 441

<210> 31533  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31533

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 ggattaagac atgtttcata gttttatatt ccatggctta aagtcttaaa cgaataatat 120  
 attgtgatta aaatgtggct cccagcggt gggcctgaca aagtaaagt aaacctagtt 180  
 tcatatgtta ttccgtangg tagtgcttcc tgcacnttct ttttttctt ttggaatgta 240  
 aaattacatt ctggaataca ctctcttttag cttcctgaat aactatttcg gaaagttaaa 300  
 aaacattctt ggaaagaatg cagtaagcaa catgggagtn gtagaataac ctattctaaa 360  
 cacttgaaca gaatgtgtat gcacatccct agttcaccta catgatatgt tate 414

<210> 31534  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31534

tgaacctcac agacceatt ccaattatct tttacaggac ttgttgtttc catggaggac 60  
 tgaaccacca acttgtttgt caagatcctc aaaccaagac ttgtttggag tcatatgaaa 120  
 tgaacaccca gagtccaaga tctatttgtc tcagtgttct tatgagacac cattaaagcc 180  
 tcagctgaat cataaccatc ttcaactaga gtagcatttc caggttcttt agatcgatct 240  
 tgcttggttc ctttctgtct attangacag aatcttcgag tatggccttc tcttttacag 300  
 tggtaacatc taatgttttag tacattagat ccaaatcgag tttgtgactt ggatcttttc 360  
 ccttctgtct tatcatcctt cttgtattng cttccacgaa ctangagtcc ttccccatgt 420  
 agagaaggcc tttgtcattt ctttcattta actc 454

<210> 31535  
 <211> 191  
 <212> DNA  
 <213> Glycine max

<400> 31535

tcatgctata acagtgaaga aattatccat ggattatgta aacgggggaa acacatactt 60  
tgaatttact ttacgctggc gtgtggaagc actcactcct gtcataattct atgctgacat 120  
accatttatc atcttactct tattgaaaaa ttagtaccga cgattctatt gctcatactc 180  
tgagccagcc t 191

<210> 31536

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31536

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cttttccata tcttaattgt tggggtgtcc aagctttcta tgccaattct ccttgactga 120  
catgtaggta catgggtcta tattgacttg agagttgaca cttgaaagtt ggtataatcc 180  
atctctaaga ttccctttta gtagtgcctt ccctgtcagt ttgtccttca catagcagta 240  
gtttgcatca aattcaacaa gagcattatt gtctgcagtt aatttagata cactcaacaa 300  
gttcttggtt atttctggga catacaagac attacgcaag ttgaggttat tcaattgagt 360  
cgagcctgat gccaatatgc tcaatctttt accattgcc aactaacaag aattcttacc 420  
attgctttca ctgagatctt ggagttctca ttntgatgag tcacatga 468

<210> 31537

<211> 404

<212> DNA

<213> Glycine max

<400> 31537

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
ctccaactga gctcacgtac tctcacgtag cccatatact cgtttctctc aacaccgggt 180  
ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca cacagcacat 240  
gctatcacia ccaagcaaaa cagagcatag gcagaaaact ctgccaaaac accaaccaat 300  
aatcacaget tttcccactc aaagacccca gtaacaattc cttcgatcca attcgttaac 360

cgttggatcg actccaaaat ttactggaag tctctagtag ataa

404

<210> 31538  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31538

tggttaagaaa agagcaaacac acacagtcac ctaataagta tcaagtattt aaaaaaaaaa 60  
ctgtaagtat aaaatagaag tgtgtgtgct gctatttaag aaaaagacaa gctaagtgcg 120  
gaaaggcaag taatagagtt ggaataaaaa taaaaagggt gatctatgta tgaatgctct 180  
cttagaacct aagcttttgc atcctagaaa aaccatgaat tgattgcagc ccagcctcgt 240  
tacaagccta gtaaagtcct tcagattcaa tttgtgtgtt cttgactata tggcatgaga 300  
tgaattgcaa agattaagac ttgtgttagt tgttgattgt tgaataagcc taaacacttg 360  
tgtttgagtg aaacagtagc tgtgtgacct tggttaatga tccttccttg atatctnttg 420  
ctcttactag cttatttcag ttgtgttcct taataatcat gt 462

<210> 31539  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31539

agcttatgaa gcatcaatag accttaagaa aatagtcac ttaggacaat aaacaagaaa 60  
attaatgaga gttctcctag ggtgatcagt ccacccatca gccatcatag tacatctagt 120  
ttccttccaa acttcttggt aaattttaac aagcttcctc cttcatcaa accatttata 180  
taacaaagga ccacaaattc tataaaaaaa aaatggagat ttatacaccg gactcatgct 240  
actaataaca tcaatcatag gttgataata tgctgagtta attgcattaa atggcactat 300  
agcatctatc atccattntg caatggcttt gtcacacttt tctacaattt tcttattgtg 360  
caagacactc ttcaagct 378

<210> 31540  
<211> 445

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31540

ctataaatag ggggagaagt gaagtagaaa atggttcagc cccttaggca cttctctctc 60  
tttcgaattt gcttaggaaa attgtttccg tgaagaaaat ccaagccgag gcgcttccgt 120  
aacgtttccg tgagtgattt cgtgaagggt ttcgaccgtt cttcgacgtt cttcattcgt 180  
tcttcacgtt tcttcagtct tcaacgggta agtacctcaa accaagcttt tcgattcatt 240  
ctatgtaccc gtgggtgggtcc acattttgtt tcatgtattt ttattctcgt ttcatttatt 300  
ttttataccc ccttttgacg tgcttaagcc attntattta agtcatttct cgcttaacct 360  
anaaataaaa taaatttcca ccgatcggtt gaattgtatt atccattaac tttgggtgaa 420  
atgaatntcg accgatcggt catgc 445

<210> 31541  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31541

gatgacntgg tcttcaccga cgaaaggatc aaagtgagtc tattaagagg caaatttgat 60  
catcatactt tgataaatgc caaaaaaaaaa ctagggcaaa tgaagagggt gagaatgagg 120  
gacaagccca tgctgtgact gccattccta tacagctaag tttcccacca acccaacaat 180  
gtcattactc agccaataac aaaccttctc cttaccacc gccagttat ccacaaaggc 240  
catccctaaa atcaaccaca aagcctacct actgcattc caatgacaaa caccaccttt 300  
agcgtaaacc ataacaccaa ccaagaaatg aattttgcag cgagaaagcc ttagaattca 360  
ccccaattcc agtgtcctat gctgacttgc tcccatatct acttgataat tcaatggtag 420  
ccataacccc aaccaagggt catcaacctc catttctccg agaatac 467

<210> 31542  
<211> 350  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31542  
gcttgtgaat ttatgatcga gtcgttgagg agcatgttag ttagagaggc cgtgatgata 60  
agcattatgt gaatgatttt gtggacattg tgcttgccat tcaggccaca gatntccaga 120  
atgatcaaac attctggaag aagtttgatc atggcaagat ctatcttcat attgtttcta 180  
cctatgtatg catattgatg atctcttagc ttattgttta tcaagtgtta gaaatatatt 240  
ctctcgtact cattgtttta cactattctt tattagttac aattcggata gattctaata 300  
ctagttaagg gtgaggacca tcacatcata agtgggcaca cttatcttct 350

<210> 31543  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31543

acgtgaccta tgaaactcag cttatacctc ctccgatgtc aatgatgttt acaccacctc 60  
caattatgct ttcagcacca attcaaatga tcttcttaga tgtactatct cataggataa 120  
accaacaaaa ttacaagagc ttcatatcca cactatgggt gccctgctgc caacattcgg 180  
agaagtaaaa tatgagatat acttgtcttt tggttatagt agattctcac taattggtat 240  
aatttgata gaattgtaat gattgatgca ctgttacaat gtttattctt atacattggt 300  
agaatgttta ctttggaata tatntattgc gacaacatta ngtaataacc aaaataagtc 360  
tcattctttg gtaggattaa cttaatgatt ntacattctt gttcgagtct cgtattctga 420  
gtaaagtact gtcacatca 439

<210> 31544  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31544

agcttggtta cctccttctt cactacatca agaatcaccc ggttgagtct tctctgtggc 60  
tgtcttactg gtttaacccc atcctctaaa ttattcaat gcatacatgt ggatgggcta 120  
atacctggaa tgtccgccag ggtctagcct atagcctttt tatgcttctt gagaatagat 180

aacagtttct cctcttgctc atccgcaagg gaggcagata taattattgg aaaacttttg 240  
 ctatcatcca agtaagcata attttaaant gatggtagag gcttcaattc tgggtgtgggt 300  
 ggcttgataa tggtagaaaag agatgggtttc tcagcctgta ccttataaag aaagtcagag 360  
 gtatgtgtac ttntctganac anntggtagt ctatctaac 399

<210> 31545  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31545

tggctcaaaa ttcaaaaac tccatattgc atataacatt tagtgattat agcataaaga 60  
 caatgattgt gataaaaaga accataatga gttatatagg gtgtttactt ttataccatt 120  
 aagctttgaa aggttccctt gcatcattat ggaggccaat aaaaaattaa ataaattatt 180  
 taaccttcca tgtgaagata tcaaaccctc aaactaatcc annatttctc tcatttttct 240  
 tttgtaaaat ttgacatang aagggaatgc caaaccaagt ccctaatttc ttcaattatg 300  
 ggaaaaaaga aagcatatct aggtggatag aacaaaanat caatgtatat gaatcaatta 360  
 atcacagaac aagaaataaa aataaaaaaa tatcanaaca aatat 405

<210> 31546  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31546

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 agaaaaggag aaaatgacta tagaagaagg aggggtttccc ctattagaga tggttcaggct 120  
 ttgagtgtat tcaataaaga gctatgagtc tcaactgcatt tttctccttt gcttcctatt 180  
 ccttttatag gccaaaaata tcttaaaatt tatgcgacct cgcgttaagt gcacccttct 240  
 gagcttagta agtatgacgg tgtgatcatg cactgagcac gacagcgtct gggcttattg 300  
 agtatggcgg caatagctcg cttagcgcgg gattcgtgct aaacacgcct ttgggctcct 360  
 atcgggatct tntatgtaat a 381

<210> 31547  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31547

tgnggaagaa tgtggatacc tctggaatat tctagagatg cgtgatatct ttcttgtacc 60  
 ttatggacag atatggaaga gtgtacaaac tcctagaatg tgtggagcat tctacagaat 120  
 taatcttcac cttatgatac aagaaatctc caccatttat tggggagatg gagtagtata 180  
 aataagggtta agaaccttca ttcctatcca tccctgataa gagtgaatcc acttcttata 240  
 gtgagaaaaa gcctctctga gagagaagat atatagcttg ggaagtcttt attctcaagc 300  
 ttgagtgagc caccgtagag tgagtccatc catgtagaga gcctctctga gagagaagat 360  
 aaataacttg agatgtttct atcctcaagc ttgagtaagc ctctctgaga gagaagatat 420  
 atagctcgag aagtctctat cctcaa 446

<210> 31548  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 31548

ttcacttttc tgcgtggaaa atataattta gttttaaaat ccagaaacgc gcataagata 60  
 taatctggat tatgttatgt gaataccgag ttgtgaatta tgaataatcc ggtttttttt 120  
 ttttaggaaa agaatttata atatgaattc tgtctgatat taattgtgat ataaatcatt 180  
 aaatccctta taaccaaggt agccatacca tattaaggaa ttggcaaata accgagtgcc 240  
 acaaataatt ctgattacat gtcaatttta tgtgatatca ttaatcatat t 291

<210> 31549  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 31549

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 agccttactc aaggtgaacc acgtaaatct gtttgtgtgt tctttctctc atctctttct 120

ctttcaattt ttttacaaca tcgtgtgtgt gacataactt tcttctgcat ctgttgttgt 180  
 tgtttttgct tgttcttcat cacttccaca acaatctgga atcaagagct caatttgca 240  
 tcaaggaat tcaagattct cgtctgaata taaagatcaa gctgtgggag tcttgtttct 300  
 ggttctttcg ctgcttcttt gtgatcaaga acattcaaga aatcatgtcc aacacaatca 360  
 ggattgagaa attcaatgga aagaacagct tcaatctgtg gcgcatcaag atgcatgc 418

<210> 31550  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31550

tatcttgttt gcaaactgga tgcgttggtc aacttggtaa cccagctggc tttgaataag 60  
 aaatctgtac ctgtcgcaag ggtttgtggt ttgtgctcct ctgctgacca ccatacagac 120  
 ctttgccctt ccattgcagca acctggagca attgagcagc ctgaagctta tgctgcaaat 180  
 atttacaata gacctcctca acctcagcag caaaatcaac cacagcagag caattatgac 240  
 ctttccagca acagatacaa ccttggtatg aggaatcacc ctaccctcag atgggtccagc 300  
 cctcaacaac aacaacagca gcttgcctct ttccttcana atgct 345

<210> 31551  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31551

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 tgaaatcttt atcttaatga acaacacctc gtgctcaaga gttcatcatt tccaagccaa 120  
 atgcacattt atacttttaa atatagtctt tntattcctt aaccagtatc cttatgatca 180  
 atgaggatga ggcaaacgag tgagggttga aagaaatcca tgcatgttat gccagctcct 240  
 gttcctcatt ggatgctctc tgttccattt cgactgtcgg ctttgtcact agcaccgaat 300  
 tctatcattc tgtgtgactg acagatcttt tgttgtgtgt tggctctgatg gccacaatac 360  
 aatacttcta ttaatcagca attgaaatat 390

<210> 31552  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31552

agcttttctta tctgnnttaa gtccaagccc ataaataaaa taaaatctag ataagatcta 60  
 cataaaataa tatctagatg tgataaaatc tagatatgat aagataaaat ctagatgaaa 120  
 tacaatttag ataagataag atttggtaga ataaaattgt ctgctctctt caagtccaag 180  
 cccaattccg gattcaagcc caattactta caattctcct gacattaaat taaacacaca 240  
 caattaatcc agtaggcccc aatgataaaa ctacataatt aatttgacaa ttaatgctaa 300  
 tcaataatta caatggtgac aaaaaggggt aagacatatg agaaaatgat gacacatcag 360  
 tgaggcacat gaccatccag aatatgcaat ttcagc 396

<210> 31553  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31553

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 gggttgagaa gtgaaaatga gaatggngta attttggagt aaactctcat ctcaaacaag 120  
 tctataacat taatntaaac ttactcaaac tggttttacg gcgaaaactc caccgattca 180  
 aaatttgacc cttcaacacc caatttacc tagaaatggc tcttgctttc acatttgatca 240  
 ctcatnttct tcatttgctc tgcccaagct ntccataaag tccataattga cattntanac 300  
 taggatcaac tcactttaga ctccaattta cactaacccc aaatntagct tctctaaccc 360  
 tcaaaatctc acactgttct acctacaaca ttgtcattct cacatntagc cctaaattaa 420  
 ctgtcccat catctctacc 440

<210> 31554  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31554

agcttattta tcattgataa aatatcaaca aaatctnta ttataatata atacaactta 60  
tcaaaacaag agttcgtttt ttacatgta atagaattta aatgaaaaaa atgaaagcaa 120  
ttacaaaaag tagtaaagta caacaaaagt gaaatttctt ctttaaaaaa agaacctaaa 180  
ttcatcgtgt cacaactctt aagttaaggt gttaagaaat aaatttgtcc aatggcttta 240  
aacttcttaa atttctctt gaaagagtag aaataaaatg ttcaatcatt ttaagttaaa 300  
tcanatttaa aacaatatta catgaattca aaatagtttg accaaattga ttaagctgaa 360  
naaactgatt acctttccca aatanataac aatggttatg aaaatgata 409

<210> 31555  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31555

tgaaattatc atgcaacgct acgaacgcca acaacttttg ttcncacca ttgcttactt 60  
tgatggccgc tcttaagggt cttaccatgg gaagaaattc accctctctc ataaggcctc 120  
cttcaactgc aataacctat ttgctcatga caacaatcaa ggtgccaaat gctccatgcc 180  
tgtgtgccaa tattgtgtta cacggtgtca catgatatgt taggaaaacc actcatggct 240  
aagttcaaga catgattggc caagcaatga agtcctttgc cgaatgccaa cggtgaagaga 300  
atgagcaatt gtgcctctct ttgcaaaatg ccataaacac aattctccaa ccttggtgtc 360  
gtacttgtag agaacatcca acangtcaa ataacaatgc ttggagttga tgctgcacct 420  
gcccctacac ttgcacttgt actttaacca ctcttcatac ctac 464

<210> 31556  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 31556

tcgactctgc gtgcatgcaa gcttttccac tattgtgcta tcaatagggg aagacgtgag 60  
gaagagacgg ttcaccccat gatgcacttc tctctctatc caatgtgcta cggaccatta 120

tgtccatgag gaaactccaa gccgacgcgc ttacgcaacg ttgacgtgag taattacgtg 180  
aagattctcg agcggttcttc aaagattgat cgctcgctct tcgttcaata cgatgggtcaa 240  
ttcattatat gcatccgagg tgctccacat ggaggggcat gcatgatcat cctctttatc 300  
agatactctt tataacctct attgacatg 329

<210> 31557  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31557

acacatacac acacaacaca catatattata tgctctaata tgcttttaca cataactcat 60  
aatcatgtat ttacttcttc tatcttatta tgattatgtt ttaccttagt caaaatttaa 120  
agagggagat tgtaggtct aaatgggtcca cagaccactg gatgacctat tcccaccttg 180  
gattttgatg attataaagg tataaattat tggtagacta atgatttatt gttaagtga 240  
catgacctac tacataaatg agcacacttg gtattaaatt gtattctaca gctctagtga 300  
gtatgcatcc aacgggctat taaagtacct gcaccactt attgtgaaac tagtggtcac 360  
acactgagtt gtttttattc gtgttcattg gacttanatc acttatacac tctattttat 420  
atctttataa gtgatgtcca atgaagtaca 450

<210> 31558  
<211> 410  
<212> DNA  
<213> Glycine max  
<400> 31558

agcttggtgt ttgaagtcta atccatcaca aaacacaaaa tacacatgaa gaacaaatta 60  
aatgcataca gtcataaat catagaaatc aattctaaga acataaaaaa tggctaaatt 120  
accaaacaca aaccatcaat tcatgacaac aagaaaaagt attttaaggt aattacaact 180  
cgtctaataa aattaaaaac aattataata aatcaaaatg taaactacac aattaacttg 240  
agatctaaga tcaaccctat tactcacaac caaacatcca ttataaatca ttatctaate 300  
cctaacgtta ccaatataac caagatgggg aaaaggcgaa aataatcaat atcatatagt 360

aaaagagaat ggaaaggtag ggaacactca tctaacaaac acatagataa

410

<210> 31559  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31559

gtgtctntnt cctttattct tcatgtcatg attgaatgat tcattatgtc tttccttctc 60  
ccttctttnt tgggtccataa caatgattat acaactcgtc attttctctc tatgctttga 120  
ttgaatttca tacacaatta ttttattaat ccaaaccata taaattatta cgtgtgtgta 180  
atataaaagc atatttagta aaaaatattg tttatatgag gataaaataa taaatgttga 240  
tatttaaatt acataagtac ataaagctaa tgaacacatg tcttttaaact ctaatgctag 300  
atatacattg catgataatg ccatatatag tgggttagtca tgtcttaact tatatatatg 360  
gattggataa acagaataat tggatatgaa tacgaataag agcataagac gaggaggatg 420  
aa 422

<210> 31560  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 31560

ggagttgggc cttaacgtgg tattgaaact tagcaatttg gtggtggagc tgcattgtag 60  
caacaaggat tagacttctg accacttggg gacaaaggct ctcaagccaa gttaagaacc 120  
aactcttctt taaattcaag ctattagggt tagttgaatg gttttatatt ttttaacaaaa 180  
gttgactttt atttgcagtt gaatggcttc catgtaagct tgtacccttg aatattaaga 240  
gagattatct aataggcatg atttttttaa tattattcag ttattcaata atgactgtaa 300  
ttttcatatg cttgattctt ttcttaatta ttgtaattat ttatgtttta atattttctt 360  
tagatgtcaa aggagttgtg acaactatat cttccattag agattccatt acagagtatt 420  
tcagggtgga aaatca 436

<210> 31561  
<211> 375

<212> DNA  
<213> Glycine max

<400> 31561

atacaacgta gtgactggga ataccctggc gacacccaac ttaatcgctt tgcatacat 60  
accactctcg caactggcga atagctaaga tgcccgacc gatcgccctt acaaacagtt 120  
gcgagctctg aatggcgaat ggcgctgat gccgtatttt ctcttacgc atctgtgcgg 180  
tatttcacac cgcatatggt gactctcaa gacaatctga tctgatgccg catatttaag 240  
ccagccccga taccgcca caccgctga cggaacca ttgaagccgt attaaatata 300  
aatcgacaat atgtatgtat taggatgttc tatcgataac cccgtatttc gtagccctgc 360  
aatgatacta gagct 375

<210> 31562  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 31562

aagataggaa cgggtatgac cacaccgctc cgtgaagaat taatggccct gccaaaaaac 60  
taccaagaca tctttgcctt gtcataccaa gatatgcccg gtttgagttc tgacatcgta 120  
caacacagat tacctctaaa tcccgagtgt tccccggtaa aacaaaagct gaggaggatg 180  
aagcccgaga cgctcttcac aataaataaa agagggttaag aaacaatttg acgctggctt 240  
tctggctggt gctcgttact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300  
tggaaggta tgaatgtgcg tggat 325

<210> 31563  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31563

nttgctcctt ttataaaaag agaagttctg aaactcatca cgctgtctaa aaaagccttg 60  
aggtggatcc aagtgtctg atcattcatt agcatattca tgagttgcc caaccaaaca 120  
tagtccgcca cgctccgtct ccacccgcac ccgttaagga actcgttccc ttacaaaag 180

[illegible]

<223> unsure at all n locations  
<400> 31566

tggtaatcaa ttaanacaaa gagttttiatg tgctaaagaa gtttctaact ttagaaacaa 60  
tcttatttct tctacatgat gatgcattggt gtacatatga aaatatagag actaagattc 120  
aacaatcaat acaacaatca atacaaatgt cactcaaaga gttgggtcatg tgaaagacaa 180  
aactttcttca agctttcttca tgttgctcct cctatctctt acaccttatt cttctatctt 240  
atctttgaca cttctttttt gtacattata ataactgaaa gtccaatgac cttgattata 300  
tataacttttt ttaatgaaat agtgaaatac ggtgagacac tatectttta tttctgaggt 360  
aactttctcta cact 374

<210> 31567  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31567

nggatattaa ttgtatgata tataactattg aacgctcgct acaacatata attctactct 60  
ttcagtgaat ggagcagcat tcaactaggc ttgtctgtta tccatttaca aactgtagtt 120  
agaacttaat tcataatgat aagggtgctac tngtctatat tgcaaaacta atcttctgaa 180  
gcggggtttgg ttcattgcgtc cgaaatatga gaaataagac aggatggaaa gatcatcgat 240  
ctaggagctt tcttcatatt atgtgtccaa tggatgcata ctgaattgta ttagcctctt 300  
gaatgatgat atattgtcat ttactatacg cagtgcagat gtttctggag tttcaacaga 360  
atctatgcag ctctcatttg atgcccgatg gaatagtgtg cctacaatac t 411

<210> 31568  
<211> 449  
<212> DNA  
<213> Glycine max

<400> 31568

acgagtgaca cgttgaaacg tgaacgttga aacggagcct aaacccactg tgacctggtg 60  
ccctctttta tggccccggt ttttgaaaac caaatcctct cacggatgac caacttaagc 120  
ctggacgagt ccttgtgatt tcatgtgtgt gcatgctctt tattgcttat gagaaggaaa 180



<210> 31571  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31571

agcttatact cactgagctc ttgattgaca caagccttag ggtgatgcaa tcctactccc 60  
 aaagggcatt ggatagaaga ctccaagaag attgagccag agatgcatga gaaggcccta 120  
 gggttcttat gagccttagg gtagattttg ggcccatgga ctcagtatga gccacttat 180  
 ctttgtatat attagattaa ggtttcatta tttttgggcc ttgtatttag ggctccatag 240  
 tgtaaggagg gtaccctagt aatgtaggat ttttcagccc ttgtatttta gggtagatag 300  
 actagttatt ggattagggg taattntgta atttctcatg cattaagtgc actatntgat 360  
 gtgtgtgt 368

<210> 31572  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31572

tgataaagtc cttagtgatc tattntatgt ttgtgcaatt aaattgatta gatgatgcac 60  
 aaatttgaga tttgtaattt caattagttt gaatgataga cacagcggaa acgcttgtgt 120  
 gctgagtga acactagcct tgtgaggagt gaagcatggg taatcttctt gaatacttgt 180  
 tgtcataccc taatttcgtc tggtgaccat tatttggttg tatgcgacct tcgcttgacc 240  
 atctcaaaat gtttatcacc catcgttgtg taatccataa agtctcgcaa cattccggaa 300  
 gtcaaaacaa gcattgttgc gcaatccgta aagtttcgca acattccgga agtcaaagag 360  
 agcattgttg cataatctgt aaagtcccga aacattcaag agggcaaaaa gagtatcatt 420  
 gcgtaatctg tacagttacg tgatatttcg gaaagaaatc gatata 466

<210> 31573  
 <211> 406  
 <212> DNA  
 <213> Glycine max

[illegible]

<210>	31574
<211>	427
<212>	DNA
<213>	Glycine max

<210>	31575
<211>	232
<212>	DNA
<213>	Glycine max

13165

ttctgctacc ttgtcttaag ttgacgagag catgattcat agaaagattt gg 232

<210> 31576  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31576

tgtaatacat tgattgctct atatatctca tggctcttgg attctaagaa aaaccaaatt 60  
cctttgaagt catgtcacia tataagcctt gatcgagttc ttgtgattct catgtgtgtg 120  
catgctctttt attgcttatg agaaggaaaa taaagttgaa ttgtgtgatg catgattgtg 180  
agttgatatc acctaaagta attggtgggt gagtgacaga catgtacaat gtgataccct 240  
ctacccctca catatatact aataaggaat aanaaaattt aaatattaat tacaagtatg 300  
tttaagacaa gtctttcana gggaaanaag gctcacattc attntctttt acatcatatt 360  
caaantgtgc caaataaata ataaagtatt ctggaatcaa acaaggtcgt ctaagcttca 420  
tacaattaat atagaatctg gatcctaatt 449

<210> 31577  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31577

ttctttttct tctttctctg ntcgctcatg ttcacatga actttaagag atatgatcaa 60  
acattngatt tttagattct aatgtatgat agataatctg ttagaaaaga aatatcactt 120  
tcttacatag atcttactac ttcaagacat taatatctaa ttgttaactt tggattcatt 180  
caaaaagata tacactatta caaaagttag atacattaac tgaaaaaaat tgtgtcagat 240  
tatcccttta cataaaaatt aaattgctaa tatagatatt gatacatctg gtaataatac 300  
gagacattat act 313

<210> 31578  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31578

tacgatcatt ccaagtggat cctatataag attgaacaat atattttaga naaattacgg 60  
ataacaatct tctttttgtt taattgaaga gaaatttaaa agagagaaat gatcaattga 120  
ctnttagaaa taacaattta aaacattatg ttctttcatt ttttttttca atttaaattt 180  
cattctcaac aatggatttc aataatttga aaccacgtga atcagtttac cctccaaaaa 240  
gcacgtaaat catgtgtaca tactcataaa ttcatctttt caatgtgcga agattggaga 300  
gaccattact ttcatcttga agtaattttg ttggacgagg acatactaac aaatagacgt 360  
ggatcgtaaa attcacattc ggttgcgccct ccccaact 398

<210> 31579  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31579

agcttttgat atttataggc tttcttcttc aagtgtttgt tgtctctaaa tgaatagatt 60  
tcttcacttg agttcacgta tgaagatatg gtcattggga cattaaatgc aagtcctttt 120  
catgttgaaa aaccactctc tttagcttcc ttgaagaaca ttttaaggaga acaccacttg 180  
cttttcatca aagcaagtct atcatagcan gagaggtctt tcgatattgc ttagaatttc 240  
aaagtgttga atttcattta tgtttcttag gattaaaaan atcctaaggt aatgtcttat 300  
aagatagttc ttggcaaagc aatctcaaac acataatatt aaatgaagtc taaatgattt 360  
cttaaagat gtatcagata ccataacata tat 393

<210> 31580  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 31580

tttactttga tctctttgtg cgtttgtgca catgtttctt tatcaccgt gtgagtgtt 60  
gtgattcttt tcacacctta ggtccctctt gtatactgag gaatgctaac aacatattgt 120  
tgtaatcact ctgtaatatt gacaaaaatt attaaaaatc acacaatctt gtgggtccta 180

tgtatttaat gagtttcaact cgtgattgtc tagtcatcag caaattctaa tcaatagtag 240  
 agagcgcac acagattgaa tggtagcat tcctcttggt ctattaacat aatgtcttga 300  
 tagattaggc taacactgct tctgatctca ggtagaccta gagttgatgg tgatgaagaa 360  
 gaggatgata ctgatgattt agaaagtga tttgatactg cgagtgcgtt ctctgctatg 420  
 atattgccaa ata 433

<210> 31581  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 31581

atctatcgat tagactacat gaggcgccc cctcctgggt gtagccaaca tacgatcgtg 60  
 cgtatattct attgaggact atactctaac gatccgacta tgcttgacat tgctcgaggg 120  
 gtgatatgat actcatagac cactctgtgc taccatactc atcattgacg acctgtgctt 180  
 cggttactac aacattacgt gggaatagag aagcatcatg aggttaaggc tccaatagga 240  
 catagacgaa tctcattttg agctgaggca tcaaaccttg cactctatgg gaagataata 300  
 cattcatgat agcagatcta tgtcttttta cctcactcct atctatttgg caacgtgggt 360  
 gacataactca atgatgtcca taacgggacc aggcaa 396

<210> 31582  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31582

tatgcatgat aagacccan agattgagaa gaggagagat ctttcattan tatggaaaag 60  
 catatctaca ttgtattgaa gactgaatga ataactctag gatagatgag gtgaacatgt 120  
 tcttgacact gtgtgattat gattttatct ataatgtaaa aggttgtaat gccttcatga 180  
 ttgcaattga actagcattg gttacattca tatgtaattt ctctcaatat caaggtttgt 240  
 gacccaactg tgactacaat ataaagccct actataaagg attaccttaa atgatctatg 300  
 ctgcaatgat tcatg 315

<210> 31583  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31583

tagcttttat tttcaattta gagagtctcg atatgttacg agactcaatc ggacatctaa 60  
 gtataaagtt attgtcgttt gaattctata tgagcttccg ttttcaattt ggagcgtctc 120  
 gatataattac aggactcaat cgtacatcta agtataaagt tattgtcgtt tgaattttct 180  
 cagagcttct gttctcaatt tcgagcgtct ccatatatta cgggactcaa tcggacatcc 240  
 gagtaaaaag ttattgtctt ttgaatttga tatgagcttt ccttttgaat ntggagcctc 300  
 tcgatatatt acaggactca attagaca 328

<210> 31584  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31584

ntctagctnt tcattggtgt attttgatct ccttttggtg ctctataatg tgggaatgtg 60  
 ctcaaatatg tggngcaatt ntggtttggt ttcttgcttg attgggttgg attgggggtt 120  
 tgtatgggat ggccctatgc ctataattgc atttgaaaca atgggacatg ccacattgtc 180  
 cccgttctct tgctattgat acctaaacgc gcgcccacca agtggtcggg gaaatgcctc 240  
 aatggcatta gcgcgtgact nttgtaagga aacaacccat ggnngcattt ggtttgcaca 300  
 tattntctat tttttgggac atgcattcat tcccgaagag gctagagtaa ttgccccaca 360  
 tatatcttan gcttangaac cannagtntt atgcanaaga acacaagagg aagtgcattg 420  
 tgggtaaagt tactc 435

<210> 31585  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31585

ttagcttatt ctgtaagtcc accaataaaa aaatgttttt attagtattt aaaaagtaaa 60  
 aaatgcctca tatagacatt gataaaaaaa atcatatgtt agaaaaaaa tccaacatat 120  
 ttaaaattta aaaagtaaaa aaattctctt aaaattttct ttaaattctcg tttattattg 180  
 ggtgatcgtg caactatctg attctaaaag ataaaataat ttacatgttg atgacatacg 240  
 ataaacttat caccattaga gactaattta catatataga tgtgaacttt ntaagaatta 300  
 gatcaagttg tggcgaattc tatggtgaat cacccaaaca agtggtgtat aatgaaccac 360  
 tattatttat catcagattg atctcaattt atcctctcat nctaca 406

<210> 31586  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 31586  
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 ggtatctgag aatcacttaa aattactgag aaaaattgtt tccatgatga taatccaagc 120  
 cgaggctgct tcgttacgag tccgaaacgt ttgcgtgggt gatcccgca ggatgtccca 180  
 ccgatcttcg tcattcttcg ttcgttcttc ggctttcttc ggtcttcaac cggcaagttc 240  
 ccgaaatcga acttttcaat gcattctatg tacccttagt ggacccact tgtttgcgct 300  
 gcttttatat atatttcatt tactttccgt acccgtttg acgtgcttta gtcatttatt 360  
 taagtcattt tctcgcttaa tcagaaaata aaatatattt ccactgatca tttgaattgt 420  
 aacat 425

<210> 31587  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31587

gttcacttgc acaagacatt cttataacta agaaaaatgc acccatatac aatcaaggca 60  
 ccttcgttac caagattatt tacatgtact tccaagggtg atttgttacc tacatcacat 120  
 gcacttcctt ggctaaatnt acatacatgc atactcaaag catttggggg accaaatatt 180

gcacatgtgc acattccggt atttctaata tttagcgata taaaaacttt gtgatgaatc 240  
 ttggctatct acacaataag gtgatacatt tcatgcttta ttcaaagtgt ttgctacct 300  
 aaagccgcat gcgaattcaa gtata 325

<210> 31588  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31588

gcttagcttc taaggaagtt ttctcaaaga agcttctcaa ggaatttttc tcaagagagc 60  
 ttctcaagga agctacctag tctataaata gaagcatgtg taacacttgt tgtaactttg 120  
 atgaatgaga gtcttgtgag acacaactca nagttcaact tctctccctc ttttatctct 180  
 tcaatttctg gctccccctc tctctctttc ttttccctca ttaaagcatc ctcttcaagc 240  
 ttcttatcca aggcaattct tagtggtgaa gctccttctt cctcggttta ttccctagtg 300  
 gatggtgcct cccctctcct cttctccttt tcttccggtt gcactctacat ggtgtaaaat 360  
 caccattgaa ggacctcatt gaagctcaaa gatccagcct ctatagaagc tccacaagaa 420  
 agcttccatc atttcggccc acactcttta aagatgctca ct 462

<210> 31589  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 31589

tcgatcacct aaggccaagc tgcattggtg ttctgggcttt cgactacaac tgcttagaca 60  
 taagggggga gatcgatctc ccaattcaaa ttggacccca catatgctaa attactttcc 120  
 aagtgatgta cataaaccct acctatagat gcttactagg ccggccttgg attcatttag 180  
 taggagtggg ccttctcatg tacaacaaac gctgaaattt gtggtggagg ggcaattaat 240  
 tatagtcttg ggagaagagg acattcttgt gagttttcct tcttctacat cttacaagga 300  
 ggccgtggag gaatccttgg agatgttctt tcaagccttg gaggtggtaa gcattgctat 360  
 gtggagtctc cccagtgaca accaccctca tctagggttg cattaatggt agctcaggtg 420  
 atgctagggc atcaataaag gctggaatg 449

<210> 31590  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31590

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 tctagagggtg gaggagactt cccactacc tggtattctg taatctttca ctttctcttc 120  
 tctttgttgt aaaagaagtc tccctgctat ggagagctaa atcctcaatt ggttcttcct 180  
 atggagtact tgatgtaaact acttttatat ctatctgatg atattttatg tgttctctat 240  
 actatcaata cttcatgtta gtatgttttt gccttgatca cgtagatgca tgctgagtta 300  
 gggtcactca acattgngaa atggtttgat ccttagaact tgataggacg gngttagttt 360  
 atcgtattgt cacgagggt c 381

<210> 31591  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31591

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 cattggattt ggtacgacca tgccctcctg atttcagct gggaaattgg cgagtggagg 120  
 aacgccccag catttacgca acgagcataa tgtaaaccctt tacggtttta aaagctctat 180  
 agttgggcct aggtctttaga gtttttcctt ttgttaaggc tttgtgtctt ttgttttttg 240  
 aatttataat acaaggatct ttcttcactt gttcctacgt ctctacccat tctcattcat 300  
 ttgcatgttt acttcttttt ctgaaacgac agatccgatg acgagtcctc cgaagggtact 360  
 aatacctgng acccgccctat cgacttcgag caagaaatga gtcnacgga agatgaagga 420  
 aacaaggatg tgggaacttc cccagaatta gaaagaatgg g 461

<210> 31592  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31592

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caaacattcc tttggcacga cctttgtttc tagcttcgga taccctgaga ctagggttag 120  
gccctttgat ttgcactata tcagaggtga gtgagcctat tggaaattac ccctttgttc 180  
ttagtcatta ttctttgtgt tgggtgtgat gaagctccat tgtttagct ttaggacttg 240  
tacttgctat ttctttcatc cacagaagga gcattgtagg taaaaatttg cttttcttgt 300  
ataacatttc actanacata tnggtgtatt gcattgggtt gttctatact tgggtgtgtgt 360  
ataattgaat acaaattttg gatttgctaa tcccttaaaa aactgtggtt gtaatc 416

<210> 31593  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31593

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acttgagat atgtcgcggy ggtcaggaga ccttggggac gtcaagtggg gtgctatttc 120  
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180  
tgatgtacct aaacaggcga gtcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
aacaaggagg cttgtgggtg ctggctagct gtgaatcttg tgtgatatat gggttatggc 300  
ctctggtaat cgattaccaa ggggtggtaa tcgattacaa ggcttagaaa tgaagacagg 360  
aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgattac c 411

<210> 31594  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31594

tccttacctt cggaagcaaa aaagaagaga aggaaaattt ccaatccaag gaaaaaggag 60  
aaagaaaatt tccaatcaaa gaggaagcca aaaaaaggag agaaggaaaa tttccaatca 120

aagaaaaaaa gagaggaaag gaaattccca atcaaagaat gggagagagc aaaaagaana 180  
 gaaagaaatt cccaatcaaa gaatgggaga aagaanaaaa gacgaagaag aaagggaga 240  
 aagttcccg a tcaaagaaaa cagaagacat gtgccgagag ggtcttggac agacaatatc 300  
 tgac 304

<210> 31595  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 31595

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 tcatttaggt actgaccttc aaagtccac ttctcttact attttggtc cttcaattcc 120  
 atgccccccc tctctctctc attcttttcc tccattgaag cttcctctct aatgtgaaga 180  
 cttcaaagct ccacttctct ccctctattg tctactgtaa tctcatgcc cctctctgta 240  
 tattctt 247

<210> 31596  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31596

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 catagcctgc cagagttggc tcacaacagg ccaatcaaac ctatggagca ttttcttaag 120  
 caagtaacct agcctgaagc tcaactcca ttggtgagac ccaatgaggc tgctcctcct 180  
 gagcccatat ttgcacaggt tgaactagag ccaactgatc cacaatctcc agtggtgaat 240  
 ccaccttctt ctctgagct tgaagtagtt ctccatctc cacctctgat tatcatctcc 300  
 gattccccat ctagagaaac tgntgctccc cctgattcac cagctcgaga agtagctgat 360  
 cccctg 367

<210> 31597  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31597

tataagaaca aaattgcctt aatcatttac aaatatgcat gtgaattang acgcatcaac 60  
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120  
 taatgatgga tggctcaa at tctcaciaaag gtaaaatcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240  
 tttattttca aaacaattac ccatttcttg aacatatacct ataattcaaa gaanaacatg 300  
 caaagtcgta cgtgcacaca taattgaccc ataattataa actgaatatc cgacgaaact 360  
 aacaacatta acaaattaac acaactaaca aatgaacaat accaacaaaa ctagcataac 420  
 ctaagaacac ttcccc 437

<210> 31598  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 31598  
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 atatcttaag aaggggggggt tgaattaaga tattccaaac ttttctccta attaaaaatc 120  
 tatcttactt tgtacttaag ttatgaattc ccttaatgac aatcttctta tatattaatt 180  
 caaatgaagc agcttgaatt atgaatataa agcaataata aataaaggag atctaaggaa 240  
 gagaacatgc aaactcagtt ttatacttgt tcggccacac ccttgtgcct acgtacagtc 300  
 cccaagcaac ccgcttgaga gttccactaa cttgtaaatt ccttttaciaa gttctaaaca 360  
 ca 362

<210> 31599  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 31599  
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[illegible]

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<223>      unsure at all n locations
<400>      31600
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<210>	31601
<211>	449
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31601
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13176

atgacggtca tgttctgccg ctcattccg

449

<210> 31602  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 31602

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gaacgccatg gttgtatata caaaccaatt gaccaaaaag cttaccttga attataattg 120  
tatecttttg accctttgtg agccaaatta aagttgcaaa attgaaccct gaacttgaat 180  
gactatcttc aaataccttg cttagattct acgatagcat atggctcaag gcaatttacc 240  
tcaacattgg gggagttaac ggggatgtaa agtggaatgt aaagctcatc aacacacaca 300  
acacataagt tgtgttaaaa aaaa 324

<210> 31603  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31603

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cctcggaagc aaaaaagaat agaggggaaa tttccaatca aagaaaaaga gaaggataat 120  
ttccaatgaa agcaaaaaag aaatgaagga atattcccca atcaaagagt gggagatagc 180  
aaaaaaagga aaagaaggaa aattccccaa tcaaagagtg ggagatagca aaaagaaaag 240  
atagataatt cccaaccaa gaatgggaga aagtaaaaaa ggaagagaag atagcttctg 300  
gtcaaagata ccagaagata tgtgcagaga ggtctttaga accgacaata tctgaacaat 360  
acagaattgt cactaaatga acaaaaaagaa ggataggaaa ccgtgaccta naatgggtctt 420  
ctccctttta t 431

<210> 31604  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31604  
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 ccacaaacca actagacttg tcattctctca acatcacctt ttttttttct cttcagccaa 120  
 taagaatttc ccagtttgac cactcaattt ccagtaacag tcaactatga cttgattaat 180  
 gagaggtaat aaaagtaatt ttttttatag gggaaacaaa ggtacatttt cttgccaaag 240  
 tcaagaacta attcctttaa ggatttaacc tcttcaaaca aatatttatt catatacgtt 300  
 gggcagaaac agaaaatacc aaacaccata taccttgggc aatggacatg tcttanaatg 360  
 ctttcaangg acatgtagta atttaatctc ataacatgtc t 401

<210> 31605  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31605

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 attcttcagt tctccaagag acttggttcag ctccatccaa actntcatgt cacatgccta 120  
 attcccacac tcgtgtctcc cccaagtgcc tcaatatcca tccttcaaac tcttccacca 180  
 aacatcaaca ctatttttct tcaaccgggtg aaacctgagg acctaccaca aggggctacc 240  
 atagaaactc aaattcagct catagtggct ctctctatgc cctccataca tcaggccctg 300  
 aagaccttaa cttcaaggac tcgctntgtg gccttgggtg ctgattcttc tgcctttgac 360  
 gcattagatn ttgctaata gttcaacatg ttgtcctata tntacctccc catatcagc 419

<210> 31606  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 31606  
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 gcatccctca cgaggtcacc aggttcaca agagaggact atccttattg gaaagacaaa 120  
 attgagatgt acatcaagtt caaccctac aaactctggc taatcatcac aaatggagat 180  
 ataccatttc ccagaccttg tcataatgga gctaaacaca aaagttcatt atactctaac 240



<211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31609

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 agacaattta aaataaatac agtgactata tgcattgttta atattaaagt atattttctt 120  
 tatattatta gtttacatgt agataagatt taataaatag tcattaataa tcacaatctt 180  
 caaatcagga ttaccactaa actaattaat tgttacaaat caaatcagga tcattaattt 240  
 tcgtgacctt gtttgaacct attgtaacag agaatggcaa gtatatgagt tgtctcattc 300  
 ctttcacgcg ttttgttttt gtcttgacct ggcatnttct cgggctgttc agtgaccacc 360  
 atcacttgga tgtctgttta ttcgtttggc actgcgctnn tgggttagtt agccacactt 420  
 ctagttgtgg cctgcactgg aagatacann atagtagaca agttaaag 468

<210> 31610  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31610

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 ctctcaccta gcttcagcaa ttcagctttt cctgtggctc ttccctcct tttcatatc 120  
 tttttctctg tctaaggaag tgtgcagcaa aaaaaagaaa actttgttac tcagtatgtt 180  
 aatatgacga cgaanatgga gaactgtcca ccttacgca ctcccatcct tttctttntg 240  
 tattggttct ggtaaagctc aagtgagaag cccactaaa catatactat atattaatta 300  
 actatatat 309

<210> 31611  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31611

gaatgctttc tgtcttgtgc caatggaata aattgacttg tcgccaagtt ttggactggt 60

tcctgaacca taatgatact ggtcaatctt tagttcaaat ggacaagcta aatgtgaaat 120  
ctaattgtca cctatacagg aatttggagg gaagagtgga aaggcggcag aaaacagaac 180  
tcatacctgt agtgtcaagc acagaagaat gacttttctt taaattcccc agactttctt 240  
cttcaaaacg ttcacgaccc tcagagagta tgccaagata agcatacaca ttgggtctgaa 300  
tggtcaactn tatattntca cgttcatctt ctgannaggg ggtgcttttg taaagaatct 360  
tggcctgaca taagcattta caattctata aatacattga tttcttggct ttcttcaaca 420  
acaacatgca tg 432

<210> 31612  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31612

agcttggttc anagagggtcc aggaaggaca aggcggccga aggaactagt tccgccccgg 60  
agtaacgacag tcaccgcttt aggagcgttg tacatcagca gcgcttcgaa gccatcaagg 120  
gatggtcgtt tctccgggag cgacgcgtcc agctcagggg cgacgagtat actgatttcc 180  
aggaggaaat agggcgcccg cggtgggcac cactgggttac tcccatggcc aagtttgatc 240  
cagaaatagt ccttgagttt tacgccaatg cttggccaac agaggaaggc gtgcgtgaca 300  
tgaggctctg ngttangggg cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360  
tgggatatcc gat 373

<210> 31613  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 31613

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tcattttcga tctctcgcac atattatgca cccgaatcgg acatctgtgt gagaagtcac 120  
gatcatttga atttctcgag agtttccgat gtataatttc gagcgtatcg atatattata 180  
accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240

ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaattg 300  
 ttatgaccat ttgaatatct caagagcttc cgttggtcaa ttctgagcgt ctcgatatgt 360  
 gatttgcctg aatcggacat ccgtgtgaaa acgtatgacc a 401

<210> 31614  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 31614

tgaaacagat atcaatatca tcgctaatat cctccagaag tgatattggt agattcacct 60  
 acattgtatt catgaatgaa taaaaatagc ctatcaagaa attaattgaa tcaataatgc 120  
 tagagatcct ttgttaagac attctactta attatctttc tcaaaagaac ctcaattgcg 180  
 atatatacctt aattcctcac catcatagcc atggaccctt ctgggtttata acggcacata 240  
 atgtatggaa tatecttcaa ctctgtacaa catatatctg ccacatgcct cacattatca 300  
 atgggtctct tgatgacaac ctcttcagca tgctcaatga tctgaggtac agctggctgc 360  
 caatgccaat cgagataagc catca 385

<210> 31615  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 31615

aattattgta taaatcttta atcttacaaa ttctttgttt tgtatttggc tactccacat 60  
 gaactaatgg tttgcttatt aaaacacatt aacaccacat taatgatctg aggctcgaga 120  
 catggatatg atgaaaatct aatcgcaacc aataatagat acttttttta agaaaaaat 180  
 atgggtgcaa agctcttaag aagattccta tattattatt gcttataata aatcctatca 240  
 tccattaaca gctattaact tttttgataa atcatatgcg cacatttgaa attttaatta 300  
 atgtataaga atatctt 317

<210> 31616  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31616

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actgtgggtg aacatttggt atgcgagaac aagttcgagc agattgtctc caatgaagaa 120  
tgtaagtgtt gtactttgta acagacatag aaaagaggca gagtgagaac ttgacaaaac 180  
ctgcgggatg gccaagctag caatagtgat gccggacaca aggtcagatt tgaagagttt 240  
gagattatac ttangacccc attggagaat agggaaacaca tattgagctc caaggatcag 300  
ttntctctta agaggttgtc ccttgaattg gcgcagagga tcatcangga agaaagtttc 360  
cttgagccta cccttgagtt tctg 384

<210> 31617  
<211> 295  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31617

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ttcaactagc accatcacca ccttatccga caacaaggca ttcaacacca atatttaatc 120  
atcacaatac tacccttacc atangcactg gataagatta agataccaaa gcaagaatga 180  
tgcatcacat cccttggtgt ngctttataa ccaagaccaa cctgtggcac atgtattgat 240  
gttacagcat ttcacaatca aaagttttac cctcanagac acacatatat tttat 295

<210> 31618  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31618

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cacagagatt acgcttttagt ttctctcact agaatccttc aacttgatt caagatgctc 120  
ttcaaactatg tcttacagct ctatggaaga ccattgaaat gggctctacc caactgaaaa 180  
acttctggaa caagtagaca aacatgacaa ctatcatgaa atgactgctc gcataacatt 240  
ctaagacaga cattctgagg aacatnttgt ataatttct tgaagcatct gtacaatagt 300

cattctgatg tttgctgaga aagaatttat acttgtagta gattcttttg atgaatttca 360  
actaatatgc ctttctaaag taatgcagct tcatcaatca taacacatcg tcacagcac 419

<210> 31619  
<211> 212  
<212> DNA  
<213> Glycine max

<400> 31619

gtcgctgct gcatgcattc tttaaattga atatgcaacg ctccgcataa tttcgaactg 60  
ctgtcatcca ttacaatgat ttggtaatct attaccactg cttttgaatg ctgaaatttg 120  
aattcaaagg tgaatagtca caacctttca cataacagct ttgtgtaatc gattacactt 180  
atttgtgaat ccattaccaa tgattgcttc tg 212

<210> 31620  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31620

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aagactcact aagggtggat cttgggtttg acgagcctct ggagaagtga gactcaacta 120  
ggacagacct tgggtttgac gagccttttg agaagtgaga ttcaccaagg atagactttg 180  
ggtttcaaaa acctataagt ctcaccaagg acaaaccttg tgtttgatga gcctttggaa 240  
acacaagact caccaaggac ggaccttggtg tttgatgagc ctttggagaa gcgagactca 300  
ccaagggcaa accttgtgtt taacgagcct ttggagagggc aagactcact aagagcaggc 360  
attgnngtgat gagtcttaga ctanggaatg ctcgac 396

<210> 31621  
<211> 282  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31621

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aagcactggt aatcaattac caaaacattg gaatcgatta cagctttttg aaattaattg 120  
 gaacattggt aattcaattt gaaaagtgga gccttagatt acaattgtgt gaaattatgt 180  
 atctaaactt ttattttctt ntattntttg aggtcaacaa aagtggagct cttgctccta 240  
 cgtacccttc atcgaagagg aaatcagacc tacgtaattc tt 282

<210> 31622  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31622

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 tctatggttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180  
 gccgatagat cggccttcatt ctattcctac acgccctctt cattatccat ttttctggat 240  
 cgagtgttat aggggtgcct tgggtgtttc ttagttatga tcaaattcct aaagaaataa 300  
 acaatggtga gtatgccacc aaaacatgag tatgcaaag gatgatcgga gcgcttgat 360  
 ccaccccaag gttttttaga taacatggtg agtccataac ttctcatnt atataaagaa 420  
 canagctttc atcta 435

<210> 31623  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31623

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 acaaaatata tganaatata aaaaanaaaa agtccctaca acaaagacaa ccanaatgc 120  
 cctcaaatac aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag 180  
 aaggaaaaac ctattctaatt atttacaag ataagcgggc tcatacttag cccatgggct 240  
 cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct ctagcccaat 300  
 caacttgag tcttctaccc aatgcccttg cgggtganga ttgcatcaat atgt 354

<210> 31624  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 31624

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 aatttgatca tctgctctg atgaatgcga aaaatgggga aaatgaagag gatgagaata 120  
 aggagaaaac ccttgctatg actgccattc ctacacggtc aaatttccca tcagcctaac 180  
 aatgtcatta ctacagcaat aacagtcctt ctcaccaat catccacaaa agtcatcccc 240  
 aaatcagcca caaggcctgc ctgcttaccg cagcccaat gcccaaacac caccttttagc 300  
 gc 302

<210> 31625  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31625

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**Abstract**

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<210>	31630
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13188



**POLYMER LETTERS**

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 <213> Glycine max

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 <213> Glycine max

<223> unsure at all n locations  
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$^{13}\text{C}$  NMR spectra of the polymers were recorded on a Bruker Avance 400 spectrometer (400 MHz for  $^1\text{H}$  and 100 MHz for  $^{13}\text{C}$ ) in  $\text{CDCl}_3$  at 25 °C. The chemical shifts were measured relative to tetramethylsilane (TMS) and are reported in ppm. The molecular weights of the polymers were determined by gel permeation chromatography (GPC) using a Waters apparatus with a refractive index detector and a series of Styragel HR5E columns. The mobile phase was THF at a flow rate of 1.0 mL/min. The calibration was performed using a series of polystyrene standards. The data were analyzed using the GPC software package (GPC 2000, Waters).

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<210> 31665  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31665

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ggctgctgat gtaatttgat tgatatccaa tttaaccttc aattagttgt tctaattgg 120
cctgtgcgct ataatgccta agtgcctata caagcttaaa caaaggatgt tttatggtct 180
tgatacatgg atggtttata tttagtggta agactttaag atgcactatt tgataatgca 240
atgggtctcta ctcttgagca cgatagcagc tacctaccta agtatgatcc acatattggg 300
aattgtaaaa ttcanaatat tatactaata ctctcatttt atttgtcact tttgaaatat 360
ttctttatca taaactatnt gccatntaga atattatnaa aatattaatc actttctctt 420
aataa 425
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<210> 31666  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31666

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 ggacgtcaat atggccaccg atgaagcctt ggaatgagaa accaagaagg cccgaaagga 180  
 agaacacgac caaaacaagt tttgaagggc tttatagggc agcaatagtg agctcaggct 240  
 ccgaagaggt gaaaggaatc atcacgggtc anaggcatga tcttgaagaa cgagctanag 300  
 gcttgcccta ngtcgaanag aaatttgtcc caacagttaa gcaagactga agggaatatg 360  
 tgggccatca tcgatgagtg caaagagaag ctaaattcta 399

<210> 31667  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31667

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 gatttcgctt gatgggtaaa ctttgatgct tgctttggac tcttggaaga agattgagaa 120  
 agctgaagta ggtcaaagat ttctagaagt ttctgttttg gccgatgtac ttccggcatg 180  
 tttagctata ttctaagttt tcaaacttta ttttcatttc ctttgatggt gatgtattgt 240  
 ctttttcaag ctggaagtgt tttgcggtgg atattagaga taaaaattag tttagtgtgt 300  
 agttattagt ttaaattgtt acaatctagt ttagcttatt acaatttaatt ttaattagtt 360  
 acaaattagt ttagttaatt acaagtttag ctatataaga ctcaatgtat tcatgtaaaa 420  
 at 422

<210> 31668  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31668

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 gcacaacaag ttttccacat ccacaaatcg cgcataaatc caccatcccc tggtgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttatctc aaccccggtg 180

ccccatcaat ccttccaagc ttccccaaca tccaggtaat tcatcatcca aatcatcaca 240  
aactaaaaaa tcaagcaaaa tatggcaa at gcagaaaact ctgccccata ctcaaacc aa 300  
aatcacagct gtttctcact tanagaccgc agtaacattt ctttcgttcc aattgggttaa 360  
cacgatggat tgactcgaac aatttactgg aagtctctag tacataagtc ta 412

<210> 31669  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 31669

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taggagcact catggtcacc acaccgacac tcagcaagga tgtagcgacg gtgaacgaag 180  
gagacacaat aggactagcc aaagcagctg gcgcatcaac ttcagtagta ggagtggcct 240  
cctgaacaag cacaacaaga ggaggtggag gagtaggagt aacaacaaca acaacagcga 300  
aagcaaaagc ctcaacggat cttgcaaact tgaagggatga cctgaatcaa gcgtcaaccc 360  
tacagc 366

<210> 31670  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31670

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aacagtccca ctctcccaat ttacacaaat catattcata catcattggg gcatttcacc 120  
gagcacttgg tgagcacatg tttggacata aattgcaaga ggatggggac aatgtggcat 180  
gccccattgc ttcagaatac agcataggcc taaggccttc tcattcaa at cctcaattca 240  
agaaaacaag cataaaaaaa aacaaaaact gcccacaaa tacaagcaca ttctctcaat 300  
ttggagcacc aaaagatgaa gaanatatac caatgggaag ctganaacat caaggattga 360  
atacttactt gttggagtgg acaataacac caaaaatg 398

<210> 31671  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 31671

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 aaccgggaat ggggttaggc aaagacaacg gcggcataac tagcctgata aatgccaaag 120  
 gaaattgtgg gaagtatggg ttaggctata agcccactca ggcagatatac aagagaagca 180  
 tcgcgggaag gaagagcggg agtcaaagct cgcgggttgag acaagaaggc gaaggaagcc 240  
 caccctgccca cataagtagg agctttataa gcgcaggctc gggggacgaa tgtcaagtgg 300  
 tcgcgatata cgaagatgat gttccgagta catt 334

<210> 31672  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31672

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 aaaataaata gatatttgta cttgaaaatg atataatata atctttttta aaatttattt 180  
 tattgaatat attttttctc ttttatatta ttattattag ttaagggttaa atcatttgga 240  
 taatatgtga gttgaattct tgacataaat cattcttaat cagattntat ttattttttt 300  
 ctaatgaatc ggagaattaa cacaaaaata aataaataat aataataata ataataataa 360  
 taataataat aataataata atattattat tattattatt attattatta ttattattat 420  
 tat 423

<210> 31673  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31673





acattcctac atcaatgcaa caacagcaac tactctaata actagcaaca act

413

<210> 31678  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31678

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anattcaaga atgtcaaact tctttntggc tgtttccata tctctgttcc acatttatga 120  
gttttgtcta atattcaaga atctcanaca ccttgcttcc attgcaacct tanaacatnt 180  
acttanagac ataagctgag ccaaatttct tacctacaaa tactatgacc aacttcatga 240  
tatgccacta aactntngat ctacccatct gtcacagtg ttcctttcat tccatccata 300  
atcctatcag tagaatcatc 320

<210> 31679  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31679

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tagagatgga tattcaatat atagatagaa gaaaagaaaa cacaatcatt ttctactttc 120  
tagtttttct accaagctag taaaatggaa ttgtttcaat ccacatcttt catagaaaca 180  
aactaaattt gtcactcagt caatagtaaa gaggatacaa agtataattt aattgatgac 240  
attgtcatac tgtagtctt tcaaattgat tattattggt gatcacgcaa acttgttcat 300  
caagtgggtc cccaacacct cgactatcat catggagaat acgccttgag tagtaaacat 360  
tgtgttaata cntgttttgc aataaaataa tattgaatta gcattaataa aagagagctt 420  
gaatacc 427

<210> 31680  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 31680

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tgttttaaga gtagtgctcc actggtaaaa ctaactttcc aaatgtttgc cttcgagga 120  
aatggccccg aggaagcttg cctcaaagag gtccaggaag gacaaggcag ccgaaggagc 180  
tagttccgct ccggagtatg atagtcaccg ctttaggagt gctgtacacc agcagcgctt 240  
cgaggccatc aagggatggg cgtttctccg ggagcgacgc gtccagctca gggacgacga 300  
gtatactgat ttccaggagg aaatatggcg ccggcggtgg gcatcactgg ttactcccat 360  
ggccaagttt gat 373

<210> 31681

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31681

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ctctccaacg ctgcttacct tgggtcaaccc gcataccaaa tagtattata tagtgaataa 120  
tataagatga gtatttcaaa ctaaatacaaa tcaatgaaat ctattactat gaatacaaca 180  
tctatctttg aatacgaaat aaacgagtaa gatccccacc actaatacc taagtaataa 240  
gcccgtgctt tgcttatttg gttgcacaag tgtagccttc accattcaca tgggagacaa 300  
ccagattcat gctctgatca agatgaacac tattnctctt atgt 344

<210> 31682

<211> 104

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31682

accctgtata acgggacagc acacgttctc aactgngttc cctattccca catgcaccaa 60  
ccctccaagc acatccaagc aaagccccaa ttttagggca tcaa 104

<210> 31683

<211> 357

<212> DNA

<213> Glycine max

<400> 31683

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tggtacctgg agatatgtcg cggggggtcaa gagaccttgg ggacgtcagg tgggggtgcta 120  
ttgccccaaa ccaagcttga ccaatccccga cccaaccggg gcatagtggg tcagtggagaa 180  
cctgtgatgt acctaagcaa gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttttgtgtaa tatgtggatt 300  
gtggcctctg gtaatcgatt accaaggggtg ggtaatcgat tacaaggctt aaaaatg 357

<210> 31684

<211> 360

<212> DNA

<213> Glycine max

<400> 31684

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ttcttgttta acctgataga acattaaata aagaaactaa aaaccgttcc cattccaaga 120  
ataagaaagt agggagcca tcaagtgggg gcaatttctg ccagattta taaaaaaaaag 180  
agtataaaat agtcacttta tttaattaca caaggacacc attatcatca tgcattaaaa 240  
gaatcatata ttttgtttt cttcaaaagc acatcaatga agaggacatc acgatcacat 300  
aagggtaat taccagatat ttttcaacct atatcccagg ggattgccta taatacttat 360

<210> 31685

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31685

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cataaacaca cacacaatgg aagtacctaa agtttaacaa aagccaacca caaattatta 120  
atttgatcaa atgaaagaat tcaataaaag cattgcagaa tttttaaaat cttttgcatt 180  
ctcattctcc tgcgacagaa tatgcagaaa aatgatttgg ttgggcaagc agtgtgtaac 240  
accctgaaat gttattaatt ataattcgat gcttgattgt gtttagcttg ttgtttgaat 300

atatgtttga ctntaatggg ttgaaatatg actagaatta gtcattgtgtg aattttcttaa 360  
tgtggatgtg gacttatgtg gag 383

<210> 31686  
<211> 264  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31686

agctntgtct ctactaaaaa aaaacatatg ggtccgtcac tgcaacaaat ggatggctta 60  
aaacatagaa accacaaaaa caagttgttt aagaaaccac gcaacggaag catagcagaa 120  
cacgagtgat ataccaagtg aaaaccaatt caaatgaatt tacgaagcta acacttgaat 180  
ctatcaaaag cctccaataa actaaatcga aacgcgaact ccaaacaaca tcaaaaagca 240  
aaaaaccttc agagactaga ttct 264

<210> 31687  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31687

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tgcaggaag aattttctcca agaacacctt cttaagggtca tcccaactga aaatggacct 120  
gagagcaagg tagtatagcc aatcttttgc cactccctcc agagaatgag gaaaagcctt 180  
tagaaagata tgatcttctt ggacatcagg gggcttcatt gtggaacaaa caatatggaa 240  
ccccttaaga tgcttatgag gatcttcacc tgcaagacca tgaaacttag gcaacagatg 300  
tattagtcca gtcttgagaa catatggaac acccttatca ngatattgaa tgcacaagct 360  
ctcacaagtg anacaggtg cagccatctc cctaagagtc ctctca 406

<210> 31688  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31688

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ttagagttta tctcttttat cttagcgaga gtgattctcc taaattcttg agtgattcaa 120  
gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaaag 180  
agtgattctt tccttccttt catcatcacc cttgttcttt caaaccacaa ttccagaaaa 240  
tccacctctg ccagaatta tctcgtggcc ataactccaa ttntaagcac tcaaattaag 300  
tgattcttga gcctaaattg aatttcaaaa cgagaccttt cacctcgttn tggaatcacc 360  
tcattnggag ccctgtagct tcagttattg ccatttctat atttctgtcc agccaccact 420  
t 421

<210> 31689

<211> 393

<212> DNA

<213> Glycine max

<400> 31689

agcttcattc tgccatcata ttcattgatg aagtagacag ttttttgggt cagcgtcgtg 60  
gaacagatca cgaggctatg ttaaacaatga aaactgaatt catggctctg tgggatggat 120  
ttacaacaga tcgtaagttt aacagttatc atattttatt ttgttgcata aatattgaaa 180  
ataagttgca aataagataa tgacaatttt gatagagatt tagttggtaa cataatgttc 240  
tcaatttatt tatatttgag tagatttgtt gattggggtg acttattgtg tgtgtagaga 300  
atgctcaagt tatggttctt gcagcaacta atcgtccttc agaacttgat gaagcaatac 360  
ttcggcgtct tcctcaagcc ttgaaaattg gaa 393

<210> 31690

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31690

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taagtatatt caccaggaaa acatcgtagt ggaaggaaat tgtagtgctg tgattcaata 120  
gaccttcca cccaagcata aagaccctgn gagtgaact attccttatt caattggaga 180



attcacaagt aatatgacat gagtcccata tctgtcatat cacattcacg agacatggac 420  
t 421

<210> 31693  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31693

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tgtaattctt tttccgtaac gttacgaaac ttacgaatt ccgtaacgat acttattttc 180  
cttctgcaag gttatgaatc cttacggatt atgtatttac tcttttttag ctttcgaaga 240  
agttacggaa acccccgat tgcgcaaaaa cacctctttt cgacttccgc cacattacgg 300  
aatttcacgg atcgcgcaag cctgcttctt ttaatttct gagacgtctc aggacttcat 360  
ttactgtgca acanaggatg ccaagtatct canagcggct aaccaaaggc tacatgtcat 420  
caagt 425

<210> 31694  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31694

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caagtaaaac taaacggtag ttaaccaatt ttctgacgaa tattaattat caaaatgaac 120  
agtacttcat atctataata taataaaaaa aacaataaat aacattaata gtgtgtttca 180  
gctttatatc atttctaac taaaaaagaa gcattaggat atctttgagc tttaaatttg 240  
gtggcattag ttccgatggt taaatggcaa ttgtttaatt taaggggctg gtctagttag 300  
agagtcatgt tgtcaaataa tggatgatt gatgaatgac cagatgtact cgagtgcag 360  
acaagatgtg aatgggccat atattgcttg agcagcaaca gcaagacann atagtctc 418

<210> 31695

<211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31695

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 ctgcntgcat gcangcttgt atctattaat ttttngttgn nattgtgaat ttacgcatgc 120  
 aatcttaatt ctcaacacac tgtntggatg agtcttccaa ggattgtgtt gccttctcta 180  
 actctccttc cttttccagt gataaggtaa agctacaaaa ttgagtctcc caatttttga 240  
 tataagttgt gtaagaccat ctntaattcg aacaatgtgg cttaaagggtg taaatgcaca 300  
 atccttccaa gcgagcaact cagagggtga acgccatctt atgaattcgt atgagcatct 360  
 tcaatganaa tggaagactt gaacgacagt ggttggttg ctctcattgt tctggaatag 420  
 atanggatct atatatgnca cactgatgaa ggatgaacaa actcattatg catccangta 480  
 aacttgat 488

<210> 31696  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31696

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 aaaaatcttt ataagctatg gagaaaaaga gaaccaaattc tgaaatatct taaagtgtgg 120  
 ggggtgtctag taaagggtcaa tatccctatt aataagaaaa gaaaaattga aaaaaaatgt 180  
 taattgtatt ttgttggata ttttttacct aatactactt atagattctt agttgttaat 240  
 tcagaagtga ctaaaattta taatgttact attatgtaat ctagagatat cactttcttt 300  
 gaaaatcttt ttccttanaa aagaaattgt taaatcttta tatgggttga aacaagcccc 360  
 anagcaatga cacacaagtt tgatcaagtt attctttcgt atgattntca nattaatgat 420  
 agtgat 426

<210> 31697  
 <211> 413  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 31697

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gtttataaag aaaatgaata ttcaataagc tttaatctga aggatatagc caaatgggca 120  
gaaattgatt attcacagca tactctagct agcatgattt ttaaattgggt atgattcata 180  
atcattcaaa cacaatgtag atagaaccaa caaaagtgtt tcacgatctg tgaattttgt 240  
atacagccaa caacagctgc tagaaatctc tgtctgtcct agtattaggc ctgcgcagat 300  
tatttgtctg atggctaata ttaccagag ccagcttgat ggctntaaat caccctttt 360  
cacttgcgaa tatttatttg gcttctttca tataattaat gtgcacatat tat 413

<210> 31698  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31698

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aataatcttg gaagttatta cttccacata attataataa taaaccataa agaaaaaagt 120  
aacatcaaga atcaacaatg tcaaaaagtgt ttaaacaggg gaatcgggtga gagcaacaac 180  
ttctctagat gacgaatcag aaagattagg aattcctcca attggggaaa caagggggtc 240  
agctatttct gtagctggtg aatcaggagg agtagctgct tcactctgatg atgcgtcaga 300  
aatgacaatc agaggaggag atgngngaac tgcttcaagc tcaagcgaag aaggtggatt 360  
caccactaga gattgtgggt tagctggctc tgaattgacc tgcacaagtg t 411

<210> 31699  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 31699

ttcttaactt gtaatatagc gtgattttca cgtgaatgac aatctatctt catgaacctc 60  
cataaagtta ataaattcca tgatagaaca agaacaaata aataagcaca agtagaggaa 120



caaaacaggg aggagcttgc cgcccagctc gcccaggcgt gcctaggctt tcttaggaag 360  
 tttcctgatg caccctcaaa attactaagt tca 393

<210> 31702  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31702

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 agtcacctac cattttctag cagtcctaaa gcatatgtat tcatctatga aagacaacct 180  
 accaatgagt cttctaattc aacttgctaa cccttaactt aaaacgacac ctagcatga 240  
 acttcaccac atatctcttc aagtcatttt gcacaacttt caaatttttc ttattgacca 300  
 ttgcaattgt tttcacaact tctttgatat cttttttggt gttaaaaatc agcccactct 360  
 caatatgaat atccacatca tccgcaggta ttctaaacct agaatatctc tntgtctcat 420  
 tctc 424

<210> 31703  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31703

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 atgcatagca ctggggctga gctaactgcc tcttgtaacg cgtgaaaggc tagcatggcc 180  
 tacggtgacc acacaagggtg ttccttggtc aagagatgaa tcacaggggt tgctatggta 240  
 gcatattctc tgatgaaaca tctatcataa cctgtgagac ccatatatcc ccacagggtt 300  
 ctaaaggagg tgggtcgcgg ccattgatga atggcaagta tcttgctcag aacgggatga 360  
 acaccgcgaa cggataccac atgac 385

<210> 31704

<211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31704  
  
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 tcaaagtctt tggatgaagc aacaatgatg taagctccat tggagcttgt aggcctagga 120  
 tcttcttcat caatggattc ctttgcttct tggaagatga atggcagcgg aatggagaaa 180  
 ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa gtcaccacc 240  
 ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 300  
 aagagcacga nattntgtgc tctanatgag ctttgagatc tgaagtttaa tattcanatg 360  
 atcaaagttg anaaanatgc acacacatga cctctatnta tagcctaagt gtcacac 417

<210> 31705  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31705  
  
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 gatggccttg attttctcag ggtccacttg gaccccatth ctaccaacta caaaacctaa 120  
 gaagactata ttatctacac aaaagggtaca cttctctata tttgcataga ggggtgtttt 180  
 cctaaggact gaaagaactt gcctaagatg tcctaagtga tcagctaggc ttctactgta 240  
 cactaaaata tcatcaaaat aaacaactac aaatctacct atgacatccc ttaagacatg 300  
 atgcataagc ctcataaagg tgcttggtgc attagtgage ccaaaaggca tcactagtca 360  
 ttcatacaaa ccaaacttgg tcttgagagc gatttacact cat 403

<210> 31706  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31706  
  
 agcttgtatc ttgaaaacaa ttattttgtt gtgcggtgga ttagcttcat atactactgc 60

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the frequency distribution of the number of non-zero elements in the vector  $x$  for a specific value of  $n$ . The x-axis for all histograms is labeled 'x' and ranges from 0 to 120. The y-axis is labeled 'Frequency' and ranges from 0 to 100. The histograms are for  $n = 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120$ . As  $n$  increases, the distribution of non-zero elements shifts to the right, indicating that more elements in the vector  $x$  are non-zero for larger  $n$ . The peak frequency of the distributions decreases as  $n$  increases.

<400>	31707
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<210>	31708
<211>	381
<212>	DNA
<213>	Glycine max

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ttcaaggaag	ttttcgcaaa	caagcttctc	aacgatgttt	tctcatgaaa	gcttctcaag	120
gaaactatct	actctataaa	tacaagcatg	tgtaacacat	gttgtaactt	tcttgaatga	180
aagtcttatg	agatacaatt	cacagttcca	cttntttttc	cttttatctc	ttcatctcgt	240
gctcccgctt	tgtatctttc	ttttcctcca	ttaaagtatc	ctcttcaagc	ttcttatcca	300
aagcaattgt	tggcggtgaa	gctccttctt	ccttggtgta	ttccctatgg	atgggtgcccc	360
cctttccttt	ctcttttctt	c				381

<210> 31709  
 <211> 570  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31709

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 caganccccc ggggggggct tgganctgtg ttgatcctct tacanacata gacactctca 120  
 atctctcaac tacgcagcat acacgaaggc ggcaccatat cacctttcca tttctcgcca 180  
 cctgagcaac tcacatctat catgtgcgtg acagcaattg aactgcccac ggatttatta 240  
 tgggggcaggg cacacttcgg ccatcgctcc tgatcagggg cgacagacgc gggacgactt 300  
 gactttcatg tgacgtcacc gccaacctat ccatccacat agcggcattt tgatctgccc 360  
 ccccatccc cccctcatgc ttatttgtag gatacacttg tgcaaaagca ccactagcct 420  
 tcgcctatcg gccatcgact ggtcaactcc ctcatcgaac ttccggagat cactaccacg 480  
 ccttgcgccg cggatgtcag agtgaactca actcactatg aacaccggaa agcaacaagg 540  
 gtgttctgca caaccaaagc ctgaggcccg 570

<210> 31710  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 31710

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 ccactcgcca atcatggagg ctgagtgtt aatgcaatgg aagagtggga gccagaggct 120  
 gaagtagatg ggagacgtgt taacctctag aagggttcatt ttggaagcac tgtgcgaagc 180  
 tggtagatt cgccatgatg gtgacaaggg agattcctgt ttaatgcac tggaggcatc 240  
 acatgatgtg gagacgtgct caatggacga atagttgcta caggggatga tggataacgg 300  
 ccaaattgaa gtctgcagtg cgaaaaaacg gagatggata tgtgtatgca gtcagatgat 360  
 aaaaacccaa gtaagcccaa gtc 383

<210> 31711

<211> 389  
 <212> DNA  
 <213> Glycine max

<400> 31711

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 caagtctata acatcaattt aaacttgctc aactggattt acacctaata tttcaccgaa 180  
 tcaaaatttg actcctcaac acccaatttt accctagaaa tggctctttg ttcactttgg 240  
 ccatttggtt ttctctcttg cacagcccaa acttttctcat aagtcctaaa tgacatttca 300  
 aactaggatt aactcccttt aacctccaaa taccactaaa tccagatctg gccttccaac 360  
 tctcatagtc tcactctggt tgcaactcac 389

<210> 31712  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 31712

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 cctcggaagc aaaaaagaat agaagggaaa tttccaatct aaaaataaaa aatagagaag 120  
 gaaaattccc aatgaaagag aaaaaagaaa agacaggaaa ttccaatca aagaatggga 180  
 gaaagcacia agacaagaaa gaacattccc aaccaaagaa tgggaaaagt aactaacaca 240  
 acacaacagc tctcgggtcaa agaaactaga agaaatgtgc agaaagggtct tttgaccaga 300  
 caatatctga acaatacaga attgtcacca aatgaaca 338

<210> 31713  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 31713

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 acaagttcgc taagtgcacc gcttcatctt actaagcgca ccacttcagt tcattctgcta 180

agcgagaaaa gcgggctaag ccaaaaatca ctaacgtgcg ctaagcggtc cataagtgcg 240  
 ctaagcacac gagcacaac aagggcacct agttaagcct gaaatcagat tttgtgaagg 300  
 gagtttggac taggattcag agctttgcat gtctaggggtt tctagagaga gaaagtccaa 360  
 gttctagaga gttttgagag 380

<210> 31714  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31714

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 cagtacacac ttccgccatg gcttttgctt tggctaacag acgcgggagg tcttgacttt 180  
 catttaaggt caaggcgaac ctatccatcc acatagtcgc ttcttgatct acgcatccat 240  
 cccctccctc ttgcttcttt ttccgcatac acttggtgcaa aatccaccac tagctattgt 300  
 tcatggggcca tggactgcgt caattcttca ttgtattgcc ccatgatagc taccatgctt 360  
 tgctccaggg ctctcaagtg ttgagccaaa ctcttcttg acctcgtgca agcaactaac 420  
 tcttctttta atatcatgcc atgcacccgc gacc 454

<210> 31715  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 31715

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 tttatacacg gatgtccggt tgagtccgt aatatatcga gacgctccaa attgaaaacg 180  
 gaaactctta gaaaattcaa acgacaataa ctttttactc ggatgcccga cagagtgtcg 240  
 taatatatcg agagacgctc catattgact atgaacgctc gtatcatatg taaacgacaa 300  
 taactttata ctacagatgct tgatagagtc ccgtaatatata tcgagacgct caaattttag 360  
 atccgaagct ctgagaaaat tg 382

<210> 31716  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31716

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aagttattgt cgtttgaatt ccctacgagc ttcccttttc aatttggagc gtcttgatct 120  
attacaggac tcaaccggac atccgtgtat aaagttattg tcatttcaat tttctcagag 180  
cttcggatct aaattttgag cgtctcgata tattacggga ctctcacac atccgctaaa 240  
aagttaatgt cttttgaatt tgatacgagc ttncgttttc aatttggagc atctctcgat 300  
aaattacgac actctgtcgg gcatccaagt aaaaagttat tggcgttcga attctctaag 360  
agtttccggt ctcaatttgg agcgtctcga tatattacgg gactc 405

<210> 31717  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 31717

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caatctgaaa atttttctaa gtcattttct gcttatctct tcacacataa tttaaaaacc 120  
atttttgttc attactaaac aagctgaaat taatcacaat cacaagcaag atgtcctaac 180  
tacatgcaag aaataaaaat gaagatagag aagggaaaga aaaactgggt tgcctccag 240  
taagcgettc tttaacgtca ctagcttgac gcatcatcct gttatccagg atccaataat 300  
gttcccactt caaggacctt cttctcagga cttctatcct ctatcacatg aac 353

<210> 31718  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31718

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 acttgaaact tgattcttga attgttcttg actcaatctt gaagtcattc tcttngcctt 180  
 tttgtcatca tctgtgttat catcaaaaca cttgaaatca atcgcgacct atcatctgaa 240  
 tcaatcttga ttcatgactc aatcttgatt caatcatgaa gcttgcttct gcacttatgc 300  
 gtcatgtctt agaggatctc ataggttagat ttgtagtgtt ctattttgat gatatttttag 360  
 tgtacagtac gagcctagat gatcacttac gacatntcat gccagttctt tcagtcctta 420  
 ngaaaaacac tctctatgca aatat 445

<210> 31719  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 31719  
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 gacaacaaaa gatgatgact aaggatga acaaaaagct caaagatcaa agaaaaactt 120  
 aagtgaatca aagaacatct caagtgaatc aagaataaag attcaagatt caaaatctca 180  
 agaatcaaga tcaagattca agactcaaga tttaagaatg aagaaaagac tcaatcaaga 240  
 taagtattaa aaagtttttt caaaactctg aatagcacat gagtttttga caaaaccttt 300  
 accaaagagt ttttactctc tggtaattga ttaccatatt ggtgtaatcg attaccagta 360  
 tcaaaatgag ttgaaaaag ttttcaaact gagtttaca 399

<210> 31720  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 31720  
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 accatacttt ccacgatttg cttgggtatt tatcacgcta gttatgccgc cgttgtcttt 180  
 gcctaaaccc atccccgggt cacaaccgtt cccaacata actcgggcca tgactccgct 240  
 gcatcgacag acaatgctgc ccaaagaggg agtccacgga cgaaatgctg accacctcag 300



<210> 31723  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 31723

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 acacgaattt aaagagagtt ttcatgtccc acaaagttaa tcctctcaaa agattaagag 180  
 tttttctgaa ctgaactgtc ttatcctctc aaaaagattc cttgggtcaac cacttgcata 240  
 ttcaataagg aattttgatt ggtcttcatt gtacaatcta tcccttttaa gagagatttc 300  
 ttcttctctt cttcttactt ctgaaaaggg attaagagac tgagagtctc ttattgtaga 360  
 ggattcttga acaca 375

<210> 31724  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31724

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 ctttgtcacg ggaagccgga aggtccatat caccttctta attgtacata tggggcactg 120  
 cgcccccaaa tgcgcgagta agaagagata attttccggg ctctcgtgtc cgtaaaatgc 180  
 attcatatca tgcaccgcat aaacatctct tcagcatcat aatgaacata tcgtcctgca 240  
 tttgtcgtaa tcacattccc attttgcatt agtcattgca tcatcatatg cgttcaacat 300  
 actttttgtt tgctcataca taatccttgt attttctctt acaaaacaaa aacaaaaaaa 360  
 agggaagtac aaaaattcac gcagcattct tagttgcata tattccgtac catgagccaa 420  
 ccatgttggg atcataaacc catttcacaa cacaacaa 458

<210> 31725  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 31725

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 caatacaggt aaaagaattg ttgtaggtac atgaggcaat ttgtggtagt aaattgaagt 120  
 gaatgaagtc tcagaaaatt cgtattgagt cggatttctt agaaaacaaa taattgaata 180  
 acaagaactc gtatatcata tggctattat tggattccta aaaaaataaa aaaatatata 240  
 gagataaaag cttctcggaa taattttattt aaatttataa tcacggtata ttgattttac 300  
 gtaaaagttg aaatatataa attagaaaat ataattacag agagaatgta cgaatttaac 360  
 tcaagatatt taatgtgtat tttttcattt ata 393

<210> 31726  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 31726  
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 gtcacaacac caattccatg gatccattcc ttgcctaaaa aattattgaa actggcttgt 120  
 gaaggaataa ccacaaagat agttggcctc ctcaaacttc caacaaaaac ttctagtgtc 180  
 atcatcccat caattgctcc ttatacttag taaggaggat caaaatcggt ctagcatatc 240  
 ttctaaaaat catcaaaacc agatttaaaa gtatcaatca ccatttcttc tacagtttca 300  
 tgcattgggt ttgagtgatt ctttagaatt tgaatccttg cttttgttga ttgctctgtt 360  
 gattctccaa agccaacttc ctaccccttt gggtacgcct ccattgagtt ttgttcatgt 420  
 ttttgaacct tgaagcacta tagtaagcca tccttg 456

<210> 31727  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 31727  
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 aggetgtgag agctatattg ggtgtcgcat tgcttaccba tccggatatg cttgagcact 120  
 gatactctgc catcgaatat aaaacatctg cggagtgcct aagacagaat gacttaccac 180  
 caaaagtatg acatcaaacg actgtctcct taggatgaaa gtgatactcc atttttgctt 240

atgatgcgga atataccaag gaagttcacg tatcttgaga agatattcac ctcaatactt 300  
 gattaaggat tgattgattc tagagggtggg caaaatcggg gctgaattgg ttaatgtaag 360  
 agtcgtgacc aatgtcctaa tatactagct cacagatct 399

<210> 31728  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31728

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 ttattgatca aactagatgg gcgtgtattc ttggcgatta cctggcgcg ccatagtnatc 180  
 taccatttgt tcatatgctg tcaactgatgt cggcatctaa ttataccttt tggatgtgga 240  
 aagctgttat aagtcgtaaa cctatatcca cacaccgcca ttatgttaat cctactttga 300  
 tcatacgccc tcccgctccc tgacctcgca tggaatgaca tttatacgaa cgtgtgtcct 360  
 cgaccctagt atggtggata gagacatgtc ctttcggatg ctgcattgat cacattcttg 420  
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 tgcctatagt accacttgac cctagagact tacn 514

<210> 31729  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 31729

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 taatgtggag ttcacaactg tctgactgct tgtctctccc aagaatgcca tagttttttg 120  
 taagacttgg gttgatactg aaacttgtgc tttcttaciaa ggtaggttg tgccatatat 180  
 atagatgagt tttaatatca gtgttgatt ttttaaagat tgaaaatacg tatgcacatg 240  
 ctttctgtat gtgttgtaa ctacacgaat gacatgacat gcttttagctt gcacagatt 300  
 tgcatatgta gtcattgtgt gtacggctct ttcacgcgtt ttatgttaat gcagacaaca 360

atttatcata cacgattttc cacaatgtgt a

391

<210> 31730  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31730

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tcaaataata actgattagt taggctaaca atactgataa aatatcttat catatataaa 120  
ttctatcaca ctcccgagc cgaagcgaga ggtcgatgaa cacgaacact atgactgtct 180  
cgaactggac ccgggaccat ggccactaat tttttatttt tttcagaacc ttgtaatatc 240  
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tgaggtagcc accattgccg atccggcttc ctcaagtatg agcatcaacc gagcctgata 360  
aaacgaaggt tgatgatcac tctgctgaat taacatcctt acacctcgat atgcacttgt 420  
gagacccgaa acaagttgaa tga 443

<210> 31731  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 31731

agcttagata ccaccagcat caaggaatta gggcggttga tggaagctct ccaaagtgaa 60  
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gccattgcat cactcacca atactacgac cagcctttga gatgcttcac attcggagac 180  
ttccaattag taccaaccat tgaagaattt gaggaattc taggatgtcc tctcggggga 240  
agaaaacat atctttcatc cgggtgtctc ccctctttga gcagaattgc aactgtggtc 300  
aaggattcag caagaggttt ggacagcata aaacagactc ggaacggcat ggcgggccta 360  
ccacggaggt acctagaaga caaggcgag 389

<210> 31732  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31732

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ccacatttga cacatggata gaaaaatttc ccccgcaaag atggtgcatt acatttagta 180  
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agtttgatcc atgtttcccc ttgatgtga cacttgatta agttatctga catgcatgan 300  
aacctcactt tnttaattaa aggtgtggcc ctatcccatt caggaagaca ttgttttagag 360  
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gtctccaagt acactacatg 440

<210> 31733  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 31733  
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atctttcaat caatctttca atatctttct acagaatttt ctgattcatt tctcttcac 180  
ttctaaaagt ttttgatcaa cactttctct tccaagaaaa gttctttggt caaaaacttg 240  
tgctattcat ctttttcatt cacttctccc ttgccaataa gaacgaagga ctaaccgcct 300  
gaattctttt gtgtctctct tctcccttac aaaagattca aaggactaac cgcctaagaa 360  
ttcttttgat tcttccctta cccttaagca aa 392

<210> 31734  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31734

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ctttaaggaa ttttgagct ttggaattgt tttgggaata agtgtggggg gtttttttgt 180  
 ttcatggat aacttgtttt gttggctatg cttcgtgatg tttttgcg atacttgatg 240  
 acattgtata ttggttaaata gttggacatg ctgaatgaaa tgttgtttct caaaggctat 300  
 aaaaaaaaaat tcgaacaaga agaagaagaa gacaagcaat aaagttgagt gaataagatc 360  
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 tacttcttct tttttctta ttcttctctt a 451

<210> 31735  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 31735  
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 aattgccacc aagtccaaca gcgtgcgaca tactaggatt cccattctgg ataaggagcg 180  
 ctcccagaaa tgaatggccc cccgtcggat cctgatacct caactgtgag agatctgcaa 240  
 gttgcttatg gagttcccct tctagatcat tatcacttag atcatgatat tgacaatga 299

<210> 31736  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31736

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 cgattctttc atgtagtcta actttaagta tacatagaga tcttactttt ggtgatatag 120  
 gatcttttaa tatagtccaa ctttcacttt tcacattgca gctttcgacc ttacacatct 180  
 aactattgat actctagcta atattagttg agcctctgcg atcgaccca acgagaatca 240  
 tactcattgt acatggtttg agaccatgag tccataaact aatactgagg aaagcattgc 300  
 atcatagtgc atgttttgag accatgagct caaccctacc tatacgtcta actacatgac 360  
 cacatgagcg aactcagana ttagtatatc ctatattatt atcatcatgc gctacatgac 420

<400>	31737
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<210>      31738
<211>      414
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      31738
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<210>	31739
<211>	323
<212>	DNA
<213>	Glycine max
<400>	31739

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aatctgtacc tgcgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctacaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240  
tctccagcaa cagatacaac cctggatgga ggaatcaccc taacctcaga tgggtccatcc 300  
ctcagcaaca acaacaacaa cct 323

<210> 31740  
<211> 451  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31740

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atatatatat acatatatat atatatatat atatatatat atgtgtatac gtagagagat 120  
accttggtatg tgcgtgtgtg tagcacaaaa aatatcacac aatatatata tgtgtgtata 180  
ggtagcgaga caccgcggat atgcgtgtat atagcanata tacgcacacc acataatagc 240  
tgtgtgtatg tcgcaagata cgtgagacac acatgtatat agcacaatac ctcacacata 300  
tatacgtgtg tttaggtaga aagactcctc gtgacaaaag agagagcgcg cgagangaga 360  
atcagaagac aaaatataga gagagatagc tatacacata tataacatat aataggcggtt 420  
gtctagctaa aacacaacat gcttgagaaa g 451

<210> 31741  
<211> 360  
<212> DNA  
<213> Glycine max  
<400> 31741

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tggaggaatc ttctggaggg cccaagtggg cctgattact atttgcaccc ccatttttac 120  
taagtacacc cccctgcctt ttttttggtg attctttttt cgtaaagtta cgaaacttac 180  
gaatttcgta acgatacttg ttttctttcc gtaatgttac ggaaccttgc ggattacata 240

atcatccctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300  
ccttttgatt tccggtgcgt cacggaacct tccggattgt gcatcaatac cttcttttga 360

<210> 31742  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31742

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caagaactct ggatttggtc cgaccatgcc ctcttgattt ccagctggga aattggcgag 120  
tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttntaaaag 180  
ctctatagtt gggcctaggc tntagagttt tcatntgtt aaggctctgt gctctttgtt 240  
tctgaattta taatacaagg atctttcttc atctgttctt agtctctacc cattctcatt 300  
catttgcatg ttnttcttan acggcagatt cgatgacgag tccccgaag gtactaatac 360  
ctgggacccg tctatcaact tcgagcaaga aatgaaccaa acggaagatg aacgagatga 420  
ggatgtggga ctttct 436

<210> 31743  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 31743

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tttgattatc ctgctttgat gaatgagaaa gctggggcaa atgaagagaa tgaaaaggag 120  
ggaggaaccc atgctgtgac tgtcgttctt acatggccaa atttcccacc agtcaacaa 180  
tatcaatacc tagctgatgt gtcattatct tttctatctt ctttaaccctt tttgtcacca 240  
ttttaattac taattagcct taattgtcaa attaattatg cagttttatc atttgggcct 300  
actggactaa ttttgtgttt taatttaatt tcaagagaat tataagcaat tgggcttgaa 360  
tccagaattg ggcttggaact tgaagagagc 390

<210> 31744  
<211> 432

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31744

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agccttgcaa caagtcctag ggaagtagac acggagatgg acaagaaaat ccgcagtatt 120  
gtgagtagca ttctgaaaga tgcttctgtt cctgaagctg atgaagatgt cccaacatcg 180  
tccaacccaa atgtttctgt gcctgatgtt gagaaagatg ttccaacatc ttccgcccac 240  
atgctgagta ctctcttccc ccagcaaaga gagatcaaca gaggaagatg atcaagcgac 300  
aaaggagacc cctgcaccaa gggcaccaga acctgctcca ggtgacctca ttgacctgca 360  
agaagtagaa tctgatgagg aacccattgc caacaggttg gcacctggcg ttgcagaacg 420  
attacaaagc cg 432

<210> 31745  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31745

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attaagggat tttttgcctt atcttttacc attatgggtca attaagacaa tcacgatttt 120  
ctttaattat tttatgacca tttttcttta aatgttttaa ttacaatcta tttattttta 180  
tttcttttcc ttttaacgtgc tccatcacat cactataaat attggccctt ggcacatcaatt 240  
ntagatacac caaaacgaag aacatcttca tcttctcttc tttctctgag ttctcccttt 300  
tttgatttcc ttgctagtgc ttgttccatg ttcatacatg aaggatctgt taaatcttag 360  
ttgatatgcg cactacgcat ataagtcata aagcac 396

<210> 31746  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31746

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aagctatact ttntgttggt atcaataagc aagttgaaga taacacctac aatatttttaa 120  
tgtgatgtga aaatagaagt acggagcatg cttttcttag aaaatttatt ttttctcggtc 180  
ctgtgattat tagtaaatat tggcttctgt tcttttgaaa ttggaagtaa tgaacacatc 240  
actgttttaa tgatttggtt ctacaacttt cactttgcat tgctttgtag ctntgtgttc 300  
atccaatcgt ggtaagtggg tatacttctc atgtataact gtgataagga tttgctttct 360  
aatttgaggg tactccagta caggcacatg atgatatggg ttctggaaca attgatgcga 420  
aatttgatgg tggatatgta gttacagtga ttct 454

<210> 31747  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 31747  
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tggtagctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tggggtgcta 120  
ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagtggagaa 180  
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttttgtgtaa tatgtggatg 300  
gtggcctctg gtaatcgatt acaaggctta aaattgagga caggaggcta agatgggtctc 360  
tggtaatcga ttaccaaggg gtgtaatcga ttacca 396

<210> 31748  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31748

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gaagtgcgtg gctacgagtg ggacttcgaa aattcaggtt tgggtggact tctttctctc 120  
ttaaatttcg tgggtatggg gttttgggag atatgatggg tagtcttgct agttctctgc 180  
ttcatgatag ttatttgatg agaaacttgt tgaaagcttg ttgaaattgc catgctggat 240

gagttaacat acccattctg ttttaggggt tttatgagga tgcttgtgat gttcatgtac 300  
 tgaaattgct tatggaaaac tgtagagat gaaaggtaga gttaacctag ggctagaaag 360  
 tgagaatgtg gtgttatgag tggaaaaaga gtgacgctnt gagagttgaa aggctaaatc 420  
 tggattctat agtaaatgga ggtaatatg agttaat 457

<210> 31749  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 31749

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 ccataactct cattaatggg agagaaatgt tcatctgaag catacaattc cctaattgta 120  
 tcaaatecta aaatttgagc tccaaaggag taaaacaatg tgtgcctgct agagagggca 180  
 tcaactacca catttgtttt tccctttttg tttttgataa catatggaaa ttactctagg 240  
 tactctaccc attttgcagc ccttttttta acttgctttg cgctctaattg tatttttagtg 300  
 attcatgac actatgaatg acaaattcct tggaaacaag ataatgttcc caagtttggg 360  
 gggctattat taaggcaaaa agctctctat cat 393

<210> 31750  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31750

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 agcgcacgac tgctaagcga agcactttga gaaaccaaatt tttctctctg gctcacttag 180  
 agctttggct cgctaagaga gaggctcgaa aattgcttaa gtgagtgtaa catctttaca 240  
 ctactttgc ccagatttcg cagacaattt ccctgcaatc tctctctccc ataatttggtg 300  
 caccttgcat ttgagctttc tatttgcatt gtctacttat cttcaciaag catcaatgat 360  
 acaagtaagt tccttactcc ctttattctt ttattntggt gaaccttacg gtagagaacc 420

atacatgtta gctgtcaatc tttacgtgtt tcatgatat

459

<210> 31751  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 31751

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aataggtttt caaatcctta aaaaataatg atttacttat ggatcaaact atgatagccc 120  
caatggaatt tttcttccac atcaaatacat tttttttcta gcagtggcca tatcagccca 180  
tatgctatga agcacgtgta cctgcatttg cttcacaagt ccataattca aacccttagt 240  
atTTTTggat aattcattga tacacttgta cctacaatta ctttgtcacc aatcaaatat 300  
tacatcacat caaattacaa tattgtgaaa ttgaacagcc ctagttgcaa taaaaaatca 360  
aacaacttaa acataatggt gagttccaac gaac 394

<210> 31752  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31752

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ttagcattag agggaattct actcatctct tccaaccatt cttcttccat ctggggaaag 120  
gcattagtca caacaaagga ttggtaaaca ccctcctcta catatagctg cctatagaaa 180  
tctatcacca tatttctttc aatgagaatt aacaaaattt ggaaactcaa aatgcactcc 240  
tatgcacttc aaatttgaat ggtagtctat tatggctcat ttggataggt tcttcaagta 300  
tcaaaaggag agttatatga taagacttca accaattaag atgaaataaa tatgcttttt 360  
tgaatcatag tctgcattct aaattgataa tgtattttatc aagcctaaca ataagcttcc 420  
ttttcgtcaa gtaagcgcat caccttgata caccaaa 457

<210> 31753  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 31753

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60  
atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120  
aaccaccatt agaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180  
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
tccattaatt ttttgcttta ccttctcttc tattggtggt tcttcatttt tctccatgta 300  
tctcctcaca tgtcttggtc taaatgttgt taacatgatt ctttagagtt tccaccgatt 360  
aaacttgta tagaagctag atttgat 387

<210> 31754

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31754

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ttctcttttc tattattnta ttttaagtta tgccacatgt ctccatttga gtggagcaaa 120  
aggccactt tactcttgat gtgactcatg ctcagccaca tgaagagaat aatttgacct 180  
tttgaaatgc caaagtcttg cctcggattg cgtgttggtt ctttggtcta gtcccttgcg 240  
ttctctgtgc ccgtcggggc caattatcga aagtaggcaa tatatatatc acaatgctca 300  
gaatgaaacc tcgagcgtgg ttcacagggt gagtttgta aattctaagt cgcacgcaaa 360  
acgatgatgt ttacactaat taattaagaa ttaacttata acctccaat tatggatgc 420  
tcttcc 426

<210> 31755

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31755

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tatcatgata tcagagttcc actcctgaag aaggaagttg aatagctga aaatttgatg 120

aaaggccaca gggagcaatg ggtcaagtat ggttgacta ttatgtccta tgcattgatt 180  
gatcggaataa aaaatctcaa ggttgaaaag aaatctcaag gatcacagat tgcttgaggga 240  
ctggatgtat gcacgggttg ttgccgaacc agtataaaaa ctcttgctg tttgtctct 300  
tcttccctac tctnttaatt tccactgtgc attttaattt ctgcttttac ttttgcgtaa 360  
gtttctcttc tactctntat tcacttaaca aca 393

<210> 31756  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31756

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catgaccttt caagcaatag atacaatcca ggttgaggga atcatccaaa tctaggatgg 120  
acaagtcctc cacaacaaca acagtctatc cctccttttc agaattgtgc tggccaagc 180  
aagccatatt ttcctcctcc aatgcagcaa tagcagcaac aacaacaaag caacaagcaa 240  
ctatgcctct cctcaacctt acttaaaaga gttagtgtg cagatgacca tccagaatat 300  
gcaatttcag caagagacaa gagcctccat tcaaagtctg acaaatacaga tagggcagat 360  
ggctacttac atgaatcaag ctcaatccca aaattctgac agattgcctt cacaaactgt 420  
gcagaatgca naacatgtga gtgccatcac cttg 454

<210> 31757  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31757

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ttctgaaat atgaactgtg gtgtgctgta aaattctttt cctgcgccc ttgttatcct 120  
aattctgcat aaaacaggct ttaaataaggc tctgaattcc tgacgttgcg cttagcgcca 180  
ccctcgcgct tagcacacga ccttgatatt gatgcctgc cagattcttc tgtcacgcta 240  
agcgcggtga agctgcgctt agtggcggtg gcgcgcttag cccactgatg agctaagctc 300

aactattact tttagcactt catgacttag cctcattntc acttgaaatt gctcatattt 360  
catcattaa tccaatggac atattcta 388

<210> 31758  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31758

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cctctcaaga gatttttgat tgatttctag ttggttaagca cccatcctct tctcctatgg 120  
tcccttgagt ttattttctt ctcccaccaa gtagacatga aatgggggtt cacttcaa 180  
tttgattggt aggtgaaaat ttaattgaaa tgagcctgag tcacaccact cattaaaatg 240  
cagggaattg ctatttgcac tctccttta taataatata atccctattt atttatattt 300  
ttccaaaata tccctaacaa tacattccca atgttcactc cttgcaattg tctttcgtca 360  
aatccctact gtgagtgcga gcacagagca acaatacacc atcaacaagg agganaactt 420  
gtttcaagta acccaatcat t 441

<210> 31759  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31759

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aatatttatt tattcattta attataaaga aaacattntc acaatgcana ataactttat 180  
ataataaata aatatataaa acaaatatct ggggtgttata gtccgtgtgt gtttgttatg 240  
atgattgtgt atgatgggaa tttgtgatag gtgatgcaa caatgggtta cgtgggtgat 300  
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gaatatgttc taaggttgct atatat 386

<210> 31760  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 31760

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 tcatttctcaa acactcattt catgcaaaac aatccactgc atatcatttt caatcaattc 120  
 actatttcaa cacgcttttg gtacaagtaa acaactcaa gtgctgaaat ttaaataact 180  
 aaaattttaa ataactaaaa tataaaaact gaaattaaaa tgactgaacc aaatcataaa 240  
 aaactgaaaa taaactaaaa ttttcaagat gcacaaattt aaatgtcctg ctctgtggt 300  
 tgctcctatg catgctcatt aagggtccaac acctgagcag ctggtgaatc ctgagagata 360  
 ggctgctcta actcagatgc tagtgcagat ggtacaacat catcaggtat ggggtgctagg 420  
 gatggctctg ggatctg 437

<210> 31761  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 31761

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 caagcatgag tgaagaagtc aagaagatgg agatgaaacc caaacaacc atcttgatct 120  
 tcttcaattt ttcaataaga tccatcaaat tccaagtcac aataatgaac taagcaaaat 180  
 gacaccaa atagaacaccaa aacatgaaaa aacaccctag agaaaaaaaa atatagtttt 240  
 ttttttttaa acatacaaac acagaaggaa aactcaccaa atagagggtta ttttaagcact 300  
 tagagcacc tccaagacct ggtaagccat tgacattagt gctgctactc aagcaattct 360  
 tctccaacct tctcacaatt gcatcccaaa caag 394

<210> 31762  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 31762

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tgcttgggtga ggaagcgaga atcatagcat ctgcttctca gctttctaaa actatttaca 120  
gatatgcttt gccattaata tacaatgcac cttgggatcc ggctcctgcc ttatgccaac 180  
tgcgcattat atgtcttttg aagatgctca tactacgctt acttggatat cctcgtgaag 240  
cactatccga tgctctatcc atttttaaac acttcatagt acatgttgtg ctacaatcta 300  
accggaagag taacgctatt catttagatg atggagagaa atgatgaggc ttctttcata 360  
tcactgaac tatggatcgt tatagactaa ctgcctcac acac 404

<210> 31763  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 31763

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tccatctgag ctacgtact cccacgtagc ccatatcctc gtttctctca acaccgggtc 180  
cccatcaatc ctgccaagct tccacaacat ccaagcaaaa caacattcaa cagcacaagc 240  
tatcacagcc aagcaaaaaca gggcaaaggc agaaaactct gctcaacaca ccaacaaaaa 300  
tcacagcttt tctcacttaa agaccccagt aacaat 336

<210> 31764  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31764

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agcttgttcc taaatgatgg gctagcttaa gctagcctgc taacttccaa gttcttcatt 180  
agaatagcta gcttanaagt ctgcccttaa tgatctagct taactagctt ggtaattcca 240  
aattctttac acttttcttt caatgatagc tgtaaatac tcttcaaaga gatccttaat 300  
gtaattccta canagagact aaacaacaaa aaccacacaa aagcaatana actaagttct 360

<210> 31765  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31765

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 tagacggaga agaagagagc atgaggaaaa tagggctcac tttctaattt tttaaatgta 180  
 gattccacat tgattttcaa taaaaaacg atgttaacca agcaatgtaa atgttaacat 240  
 cggtttggtg gaaaaaaacc tatgttaact catcaaagt taacatcagt tttgaagaaa 300  
 ctgatgttaa aaaacttata ttaacatagg ttttcattga ttttagaaa accgattnta 360  
 acgaacttac attgacatcg gttnttaaaa aaccaatg 398

<210> 31766  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 31766

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 accttttata tatatacaat atacaattgt ttgttgcttg cttgaatctt gatttcaggt 120  
 attgcattgt catcatcaaa aagggggaga ttgtagatgc aattggctct gatgttttga 180  
 tgatgatggg gagattgtag atgcaatagg ctttgatggt ttgatgatga tcatcttatg 240  
 tgttgcatta atgcaaagg gcttttcaag attaaaattc aagacaatac ttcaagatta 300  
 caaggcacia catcaagatg atcactagaa tattaggaag ggaattccta attgaattag 360  
 caaaggtttg gccaaagtat ttacaataaa aagtgttttt cacaggttct actctctggt 420  
 aatcgattac cagaggatgt aatcgattac ca 452

<210> 31767  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 31767

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 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcate ttctttggag 180  
 gatagacatg tggaggagta gctgggttct tgggggtgtcc ataggtaaca attgtccttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300  
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctaataaa gtttgcagtc 360  
 agtcccttca ccagcagtag tttgttcaga ct 392

<210> 31768  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31768

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 attacgggac acaatcggac acccgagtta aaagttattg acggttgaat gcgctcagag 180  
 cttctatctt caattacgag cgtctcgata tattacggga ctcaatcggga catctagcca 240  
 aaagttttgt cgttcgattt ttctgagagc ttctgttntc aatgacgagc gtctcgatat 300  
 actaccggac tcaatcggac atccgagtta taagttattg ccgtgagaat ctgctcagag 360  
 cttctgtttt caatttcgag cgtctcgata tactacggga ctcaatcnga catgcgagtg 420  
 aaaagttatt gtcgtttgga ttggctcaga gc 452

<210> 31769  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 31769

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 gtctatcata tgctgacaat agccgagaag cccatgaatc ttttcggggg cggagtaggt 180

gtacgccatc gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaaggt 240  
aagagcaaac cgatccatcc acatggttgc ctcttgggtg aaagagtcga tcacccttcc 300  
tctagcctct tattccgcgt atacttgggc atactcgtec gcgaccctat gctcgtgggc 360  
cgtggctatg cctaactctt ctcgatactt ggcg 394

<210> 31770  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31770

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tttacttggg cggcgatga ttgatgcttc aaagtccaaa atgcacaaag agagtacaaa 180  
tgcaaaatgt gcaaattttt ggagagagag aatgcacagg cggcgtttct gtaatctgca 240  
aacgcgatgt aactgatgtt acactctctt aagcagtttt gatacttttg cttacaggac 300  
cgttgcgcta agcaagcaag agagatgtct ggtttctaaa ccatgctcgc ttagcgaaca 360  
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gtgcaagtaa gt 432

<210> 31771  
<211> 395  
<212> DNA  
<213> Glycine max  
<400> 31771

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aaggaaactt ggttaccatg tgagagtaat ttggataaat gaaactagtt ttgggttgta 180  
tatgcatgaa tatttcgatg cttgttttgc acaatgtatt atacaaaagt acctaccaca 240  
tagagagtgg ctatgcaatt tggaatgcat caagaagttt cagattgtgt gattgcattc 300  
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tgcaaagaat attacttggc aaaaaagcag tctaa 395

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 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31772

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 acattgagtt ttttaacttgt atttcacacg gaatattaat agtcaataat cttgaagtca 180  
 gaaaaataat gatttgattc aactcatgct atatgtactt tgatatatta ttctttcaaa 240  
 aattctgaaa gaggaatat ccaactcaaaa gcagattcca gacnaaaaaa atcaatcatg 300  
 taaacacata gattggaatt ctaattgtta aaggcggaag caacaaaact aacagtgagt 360  
 tacagccttg ggaagacaac ccncagtgc tcttcctgca actgggggat catgcaaaac 420  
 atcaaaaca 429

<210> 31773  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 31773

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 tgttgtaaat tcaaattgaa aactttttca aaacaatttt gctactggta atcgattaca 180  
 acaatctggt aatcgattac ccgagagtaa aaactctttg gtaaagggtt ttgtcaaaaa 240  
 ctcatgtgct attcaaagtt ttaaaaaact ttttaatact tatcttgatt gagtcttctc 300  
 ttcattcttg aatcttgagt cttgaatctt gatcttgatt cttgagatct tgaaccttga 360  
 atcttgattc ttgagtcttg aattcttc 388

<210> 31774  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 31774

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agctagaaca atcaagagca agatattttt gaaggataaa tcagctaaag aagaagataa 120

ttatttggtt gtagtttctt gtgatgatct ccttaattaa accaagctac aattctataa 180

ataagaggct aggtataaat aagaggctag gtagaagtcc cgaccagttc tacaattata 240

tttagacttc cacctactag acacctccat tgttccatta gacactctag atttcattgt 300

atgattttta tgagtgcaat tcctttcatc taggagacga aaggatgaac cttgtttcac 360

tttaattcta tcaattcaat acttcatctt gagttcttta tttatttccg tacataatgc 420

tcttatttga ttgccatctt atagatgtat tca 453

<210> 31775

<211> 388

<212> DNA

<213> Glycine max

<400> 31775

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gttggatcaa atggagaata gagatcacia tgaagaagaa aggatgagaa gatggaatga 120

tggtgttcct agacaaaacc gaattgatgg tattaactc aacattcctc catttaaagg 180

aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240

caacatctat gatgaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300

tcttgtgtgg tggaacaagc tacagaatga gagagcaaga aatgaagagc caatgggtga 360

tacatggacg gagatgaaaa agatcatg 388

<210> 31776

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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ggacaaaaat acccccttgg taatttttta aaacaaatgt gcagcgcccc tgatttctct 180

tcttcttctc tcacacgact gtgcacccag cgctcccta tttccttttc tacgcgactc 240  
 ttttcttgac ctcttcttag gccactctgc ttcttcttgt gtcattgtct tcttcttcat 300  
 cctcgtttgt ctctgcgttg tgctttggag ctttgcattg acgacattga agacgtgaat 360  
 tgngctgtgc tccaccgtcg acgtcgagggt aagcctattc ttcccatg 408

<210> 31777  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 31777

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 cagttttatc agctttacct atctttttac tatctttttt taagatccct aaaaaagtgg 120  
 tgcaaaagat tgtatcaatt cagagaaatt tcctttgggg aggtcatcat gaggccaaca 180  
 agattccttg ggtgaagtgg gacacaattt gccttcctaa aaataaaggg ggcctaggga 240  
 ttaaagatct ctaaatttaa tgaggcttta cttggcaa at ggggggtggga gctgactaat 300  
 aatcagaacc aaccttgggc aagaatctta ctctccagat atggtggcgg gaaggagtgt 360  
 atcttttggtg gaaagagcaa atcttctctt 390

<210> 31778  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31778

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 tggtgatttc ttcacttttt tcttaccatc ttgcgattct attttgagta cccctttgtg 180  
 atccaatgat agaacagcag aatttgagtc aacaggttgg tctctatctc accccacact 240  
 cccaatcatc tttcttttgg gcacatatag tcaagtaa ac tgcttcctga ttatcatgag 300  
 ttattgggtc gaaactcatg caatatttac ccttttttga acatagctct gcccttggtg 360  
 ccgcggcatt cagagtatca cctggcttca aactatcatt ggcttcaacg tggatacaag 420

tagtactcca ccacaaccac atatagatg

449

<210> 31779  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 31779

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tccccgagga ggtcggattt ggtacggcta tgtcctccta gtttccaact aggaaattgg 120  
tgagtggagg agcaccaga cgtttacgcg gtaagcataa tgtaaccctt tgtagcatta 180  
aaactctacg attgggccta ggctttagag tttccttttt gttaaggcat tatgtctttt 240  
gttcttgagt ttataatata aagatctttc ttcactgtgt cctgcgcctc taccattctt 300  
cattcatttg catgtttatt tctttacgct taaaacgcca gatctgacga cgagtccttc 360  
gaaggtacta ataccggga c 381

<210> 31780  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31780

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gcttttatcg gttaacatgg accgttcaaa agcataaaat caacacatca ctttactgcc 120  
ttttgtgaga actatgtagg tctgatttcc ttttcaatgg aggatacgta ggagcaaaaag 180  
ccccgctttt gtcgacctcg tgagatgggt agagggtccaa cgccttagct ttctcaccaa 240  
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acttgattcg ccccttttga aagaactacg tacgtatgat ttctctttcg atggaggata 360  
cgtacgagca caagccccgc ttttgcgac ctcaaaaata aaaaaggaca aaaagtttac 420  
gatacatgat ttcacacaac tctaaatct 449

<210> 31781  
<211> 350  
<212> DNA  
<213> Glycine max

Figure 1. The 1000 most polymorphic SNPs in the human genome. The plot shows the number of SNPs per chromosome (X-axis) and the number of SNPs per chromosome (Y-axis). The X-axis is labeled 'Chromosome' and the Y-axis is labeled 'Number of SNPs'. The plot shows a high density of SNPs on chromosomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, X, and Y. The density of SNPs is highest on chromosomes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, X, and Y.

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<211>	449
<212>	DNA
<213>	Glycine max

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ttggttacca	ggttaaccaa	ggcatctagt	ttaccttcaa	gcttcttagt	ctcacctgat	180
gaagatgaat	tcatggctac	ttcatgcact	cctctaata	caatagcata	tttctggcac	240
taattgctgg	gagttggaag	ccatcttctc	aattaaattt	ctggcttcag	tacgggtcat	300
gtctccaagg	gctccaccac	tggcagcatc	tatcatactt	ctcttcatgt	tgctgagtc	360
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taattttttac	atctctccca	atatcatat				449

<210>	31783
<211>	383
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      31783
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13253

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 agaagttttt ctcacaaatt gagtagcaca tgattgttct cacaacatgt ttaccanaga 360  
 gttgttactc tctggtaatc gat 383

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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31784

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 tccttgagaa gctttcttaa gacaacttcc ttgagaagct tctttccaaa acttcctgag 240  
 aagctagagc ttagctacac ataccctct cataactaag ctcacctcct tgagaagctt 300  
 ccttgagaag atccctacag aagctagagc ttagctacac acacctctct aatagctaag 360  
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 caccncatg acaaaatata tgacaatata 450

<210> 31785  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31785

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 caagtaatag acaaaccgc tccaaggta atgtcttggg aatggatatcc ttgctagctt 180  
 ggattctatg ggtagataat acttcatta gctcatggga actcaacca ttagcaagca 240  
 acatttgcta cagtttccaa tagaaaagaa aaaccaaagt catttttttag taactgaaat 300  
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<212> DNA  
<213> Glycine max

<400> 31788

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acgggtagat gatgtgcata tgatctatct acggcttgca cttttaattc gcacatgcat 120  
ggacttgta 129

<210> 31789  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 31789

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tatgccccat caatgtatga caggacatac tctcatgtct tacacacagc gaagggtcccc 180  
ccccctccgc gcccgttttt gaactctaga tataatttac ct 222

<210> 31790  
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<212> DNA  
<213> Glycine max

<400> 31790

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tcctggccca aggcttaag gtcctctct cctcaacgaa ttaactagtc cttcaaatgg 180  
actacacccg taaaccactt ttgactggcc tccatagtc ttgcaagcta gggatcacca 240  
caccataccc tctgcccaat aacatattac tgtctaagga cgacctccct tcacaataga 300  
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<210> 31791  
<211> 205  
<212> DNA  
<213> Glycine max

<400> 31791

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 tatgatacaa tttcaacata caagactacc ttgattatct tgaaccttca taaaagggt 180  
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<210> 31792  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 31792  
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 accaagagac tcactatggt acctggaaa aggcttgatc tacgcacata cttggagaca 240  
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 aactgggcta gaaccatggg acaaggaaat atcggaaatc aaaaaagaca cagatatata 360  
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<210> 31793  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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<210> 31794  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 31794

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tccaccatga aaccaccaga tgtccaggag gatcacatat ttctgaaggc ctttctcat 180  
tctttatagg gaagtggaaa ggattggcta tattaccttg ctccaaagtc catcacgagc 240  
tgggatgacc tcaagagagt attcttaaaa aaaa 275

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<211> 409  
<212> DNA  
<213> Glycine max

<400> 31795

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gccttcactg tttcatcatc cataattctt ttcttctttg taagaaaata cttcatgaat 180  
ttagtgtatg ttggtatatg ctctaatagcc ttacaaaaag gaatgttacc tctgtcggtt 240  
caaatgttt aagaaact tgtatttctt ttccttatat ttctttgacg gagcatacac 300  
ataaggaaga tgctcaagtg gcggatggct tactacaact ctacctttgc tagtggcttc 360  
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<210> 31796  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31796

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 aaaagaatca aaaggctcgtt caaatggctt aacgccttaa acgagttttg tttgggtcaaa 240  
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 tcgaccacaa taaggataaa aata 384

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 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31797

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 gttctgcac ttttggtaat tcataaaact cttcggttc attcctttct gagtggtttt 240  
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 ggtacaacca aaatgtgtac ccta 444

<210> 31798  
 <211> 380  
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 gctgttacgt tcaaccacag atgagaaaaa aaaactgagt ccaggatgat ggaaagcatc 180  
 aaagatatat atatatatat atatatatat atatatatat caccagtatc 240

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aataaataaa aactgagaga gaatacggca gatagagaca tctctttttg gacaaagaac 360  
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<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31799

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ttttccttat ggtacagttg agatcaaaag tgactccaca aacaagagct tcaagggtcaa 120  
tggacaccga cttaagtcag tcttcacaaa cctttcttta ttggacgtag tgggtggaaga 180  
gacttcctta ctccacccta ctcttctctc accatgactt aaggagttcg cttttcctat 240  
accttcttta cttttattac atntgtccga ttctatatga tgggtttaatt gcttttaate 300  
ttttaattgt gttacattga ggacaatgtg ttcgttaagt atggagggag gggggagtg 360  
tctgggctgt 370

<210> 31800  
<211> 382  
<212> DNA  
<213> Glycine max  
<400> 31800

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ataccaggaa tgtccgctag ggtccagcct atagccttct tatgcttctt gagaactaat 180  
aacaacttct cctcttgctc atcagcaagg gaggcagata taaatactgt taaacttttt 240  
ctatcatcca agtaagcata ttttaaattt gatggcagag gtttcaattc tgggtgtgggt 300  
ggctagatag tggtagaaag agatgggttc tcagcctgta cctcataaag aaagtcagag 360  
gtatatgtac ttcctaaaac at 382

<210> 31801  
<211> 439

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31801  
  
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 acggggttatt gccgaaccaa tataaattct tgtgttcgct ttcttcttcc ctacactctc 120  
 taattttcgt tgtgcacttt taattatcgc tcttactttt ggttaagttt caattattgt 180  
 tctttacttt cttaactctg tagtaaaaagc ctaattaaat ctacgcacat taagaagatc 240  
 acttttaatt agtcaaggta cattaataat taattcaacc ccccttctta gttattccga 300  
 gaccacttga tccaacaatt atgatataata gtgtgcgctt aaactccaaa gagcatacta 360  
 ctgacctcag aatggccact tcttgagcaa actcactctc taaggcatca ttcaattgct 420  
 ctgatctcag aaccttaac 439

<210> 31802  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31802  
  
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 ttatattaat cttgaaaagt ttataagatt tagtaaatat tctatgataa tcttgaatta 180  
 tttttaaaat tgaaagtatt gagagaagtt ttaagagaag aaattaatac ttcaatgaaa 240  
 atactaaatc atataaaata ttttcttttt taaatatatg cattccttat aaatatcgct 300  
 gaaagaaaat taataacttt ctttataaat tattttttaga ggatgtaaca tttatctaag 360  
 atcaaaattg ttatgaaata g 381

<210> 31803  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31803  
  
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cattgcttgt accaatttgc ttatatattg gcgaagtacg aagatggtga gtggaaaaaa 120  
 ataataaac taacaaataa attaacgagc attaagctga acgctgata ggggattaat 180  
 gcaccaaag gtcgaagcac gatactttct acagactaaa catcaatgct tctaactgtc 240  
 tttctattgg aaagtcaagt gacgacctta tatgaatttg caagagcaca atattgctaa 300  
 ccatgcgagg agttattata cgctccaact ccatgtgtta ctcatcctta caaacgtgag 360  
 aagaaacat tttactgtc agctctcact tccccctcat cttttcaccg ccatcaccac 420  
 cacc 424

<210> 31804  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 31804  
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 ccacggaagt tatgccaacg aatctgctca aggaagtaat ctggcgaaaa cctctcaatg 120  
 aagctaccga gggatgctc agaagcttgc gaaagacttg ttgtaacttt gatgaatgac 180  
 agtcttgaga gacatacctt gtagtgccaa ttctctgctt ctatgattcc ttcagtctcg 240  
 agtcccc 248

<210> 31805  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31805

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 cattaaaact acaacatcta taccatatt aattaaagg ttgatgacta cttgtacaca 120  
 actgatgtgt aagtatttgt acttaccgct gagttcatac attaaatttt ttgacagtga 180  
 atgaaattct tttcttatat cttattccag agaaatatga ttatgtaatc anaacctccc 240  
 ttgattcttc cataagagta ttctaatact ttcccatgta atgtaataga tatcgtttat 300  
 aagtgtatcc tcatactttc acacacacat atatatatat atatatatat atatcttat 360

atatatatat gtgtgcg

377

<210> 31806  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31806

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcadaac acaccaaattg 120  
attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
aacttttatt ttcaaaacat ttaccatttt cttgaacata tcctataatt caaagaanaa 300  
catgcaaagt cgtacgtgca cacaaaattg acccaaaata ttaaactgaa aatccgacga 360  
aactaacaac attaacaaat taacacaact aacaaatta 399

<210> 31807  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31807

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atatttccat aaattttcat atggtatcat taccttgctc aaattcgtat gagtattgac 120  
aaaatgaggg tttgcaaaaa aaaaaaaact aatgcttgct aaataaataa ccagagttgt 180  
tatgagactt tttcttttgt cactttgaaa tcaaagtgat ttcaatttca aggtcaaaaa 240  
aaciaaattg aaattttgta ctaagtgtag aataagaagc tntgttctca aaataacaat 300  
gtacagtcaa cttaaataaa tttctctgat gttnttgac tcgtgggaga gtcctaaagc 360  
ttgatatgaa ttcaagaaat tctgatgagc ttctattgtg tgacttgaca tgaatgtgtt 420  
ctctagacat cattatatca tctcat 446

<210> 31808  
<211> 392  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31808

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cagttggggtt accaggttaa ccaaggcatc tagtttacct tcaagcttct tagtctcggc 180  
taatggagat gaattcgtgg ctacttcatg cactcctcta atgacaataa catcacttct 240  
agtactaaat tgttgggagt tggaagccat cttctgatgg aagcttgctt gtggggcttc 300  
tatggaggct ggatctttga gcttcaatgg ggtcctttaa tgggtgattnt ccaccatgga 360  
gatgcagtgg aagacaaagg agaagagggtg ag 392

<210> 31809

<211> 456

<212> DNA

<213> Glycine max

<400> 31809

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tccttttcaa tttttttatt ttttttcttt ttcttggtea ttaaattctt tttgcttgac 180  
cattatTTTT tttcttttat cttgattgct ttcacctctc acctcatttt tctcccatca 240  
gtaccttctt ttcagcagtt ttctcttgt gcacaatact ctctctctcc tcagcctcca 300  
taaacctttt actccttgtc atcacatctt tgaattccgc cttgogattc ttttctgtat 360  
ttgctgcaaa actgttggac aacttgtcag ctatctgctt ggccagttgt cccacctgaa 420  
tttcaaggat cttcagtgt gactcagtgc ttttat 456

<210> 31810

<211> 395

<212> DNA

<213> Glycine max

<400> 31810

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gtgtgagaaa gcgaagcttg aacaaattcc agactttgcc tttagattgt tgtgctgtat 120



gaaatttatc cctttggcat tttgatactt gtctccact ctgagattct gttataatta 360  
cttcacatta acacaaaaca gaacaagtta taag 394

<210> 31813  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 31813

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agataaacta atgccgcata agatgtcaat gcacatagca ctgactctca cttgtcgtat 120  
atggagatta tgcgagagac gacattcaga ataccgcttt gaccaattgt tcataataca 180  
catggatatc ctctgagagt atgagtctag actgagaaag cacaaatttg attattagtt 240  
gtctagaccg aagagcggcg aatgctatat cctcttccat aaatgcaatg agaagcagag 300  
ctatactgct aatctacaca tt 322

<210> 31814  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 31814

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accagagaga agatgaaatc cacagacgga atgagaacga tataatcgag gtgatgcact 120  
cttgacttac aacactctat gtatagagtt acgacgctgg atgcaatata aggacggtac 180  
tatgaagcaa ttagttagtt atgacaacca tgaacaattg tcaataacta actataccaa 240  
ctgacacaat gcgcttacta cctacttgag atagtgtact tgaatattgc acttctaattg 300  
cagtactcta acataaggta actaatgctt agctatttat cctgaaaagt tgatttgccg 360  
taatacactc cgttgtacg 379

<210> 31815  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31815

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 gatgtgtata nagcggggcg ctctgccgca tcttcaacat tatcggcgag tttccctaaa 180  
 gacacaaaca gaggtgagtc tgccacccaa atatgaatat gctcatgaat gatcagagca 240  
 cttggatnga tcccacgcct tttccaccac tgatggagtt aagaactatt attagtataa 300  
 aaaggaacat aagctttcat ctagccatga tgatacaaca gtgcatcaca gagcctaacc 360  
 gggagaatca tatgggccat tatttatgat gggttgaagg aatcgattgc ccatcaatta 420  
 ctatgcggtg acacactctc ggatgccttt gcttagctaa acccg 465

<210> 31816  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31816

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 tttgtctac tatcagaagc ttgaggatt tcaaattccg cctgaaaaat aaaaaattag 180  
 gttttattgt tagtcaatta taaattttgg ctaataaaga aaatcagata agcaaattaa 240  
 aatacctgaa tatactccca aatcaaattc ttctgagcag tagggacttc cttccaggtc 300  
 tcgtatgtga tgtcgacctt atcacgagcg anaacctcca aatatgttct taatttcttc 360  
 ttg 363

<210> 31817  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31817

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 ggcagaaaac tctaccaatt ccccttttgt tctaagacac acgccctcaa aaggctctcc 120  
 agtgactaaa tggttcattc agtctgaggg tggtaggctg aacttagcct aagcttagtt 180

cccaacgctt tattcagact ctcccaaat ctagagataa acctaggatc ctatcacaca 240  
catgctatat ggcacacccat gtaatctgac aatctcaata atatataggg aggtcaactt 300  
ctccaaggaa aatcttatat taatgggaat attgtgagca aacttgggtca gtccatcaat 360  
aataacctag ataaaatcta aacctctggg ggtcctaagt agtcctacca canaatccat 420  
ggaaatacta tcccacttcc ac 442

<210> 31818  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 31818

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ctatacgaga catcttgcca aacaaattca ggttaacgat aactcgctg tgctttttct 120  
tccattctat atgtagcaaa gccattgatc cagtcattgtt tgatgagtta gaaaatgagg 180  
ccgcaattat aatgtgtcag taggagatgt attttcccc tgctttcttt gacatcatga 240  
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtt tggtcctgtt catctacggt 300  
ggatgtaccc gattgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360  
gtccagaagc atctattgtt gagag 385

<210> 31819  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 31819

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aacgtgtcag ccactctaca actgactgca ccttaatagc atccatatcc actccttcac 120  
cagaaactat atgtcccaac tgctctatct tcaatacacc atcagagcat tcagacaact 180  
tatcacaaaa aacattgtct ttcaaacatt tcaatactcc tccagatgca taagggtcca 240  
tgccatgtgg aactatatac caatatatca ctcaataacc ataacacata ttgccttaca 300  
gcatgctgga taatatggct catcatacac tgaacagaat tcgtagcatt ggtcaaacca 360  
aaaggaacta ccaaccactc ataatggcca tgagggagca caaaggctga tcatgtcta 419

<210> 31820  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31820

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 tgggtcagtc ctatgagaac ccactgagtg tagcagttgc agcaggagtt gaggggttgc 180  
 ctatactgtt aaagctggca aatgtaatgg cagcaaagaa gcaggagtgg caggaaatga 240  
 agcagttgcc tgtgccagtt gaattgggta aggaatttca gttccattcg atttttgttt 300  
 gccctgtgag tagggatcaa ggaagtgaag aanatcctcc aatgctgcta ccatgcttgc 360  
 atgtcctttg caagcaatca attatgaagc t 391

<210> 31821  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 31821

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 tgaaaaaaaa ttaaaatgtt caaaactgaa ctaataactg taagttaaac cacgggatta 180  
 tatatatctt ttaagcaaaa atgttgcacg ttatcctaata tttgggtgct atagatgtaa 240  
 aaagaaaaaaaa aatgaaata ctacttgaaa taatgtttta atatttatta agtttcttat 300  
 tactctttta aaataaacca atattgtaat atttatttta accataagct cttgtaattc 360  
 tatatttata cataaattat tctcattaca ataaagtaat gtcgctaata taaaattatt 420  
 c 421

<210> 31822  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31822

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attaataaat ttatcatata tagtgatttg taattagata ataacgtaaa atgactntat 180  
actcctgcat aattgtaagt ttgtaacctt tttttcttat aaactatagt accttttttg 240  
taccaagtat ctttaagaaat tagtcatttt tttctatgct tgtgatgtgg agaaatggcc 300  
accactgggg agaaagagtg gtattttctac tgccccagag acagaaagta caggaaca 358

<210> 31823  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31823

tccatttttt agcatttgca tgaaggggtgt ctaacacaga tccaatcagc agtctcatga 60  
atgagagaag tccttcccc atcttctact atgaatatta ttgtgatgaa aattatattt 120  
ctgataaact agtcaaggct ccccatgggt tagctaaagc agtatcaagt tttaacattt 180  
tcaattagtt gattgaaact ttgtaatcag ccatagcaac cgtgagtcgc gatttgccat 240  
atttcacagt gatactgcaa acattntaga aacctaattc ctatctaac ttactgtagt 300  
taatccatat ctgtggttat ttgaaactct ntaagtatgc actcttgaaa tctcctttta 360  
cactataatt agctggatga atatatnctt gccctcttc aacaaattac aaacactctt 420  
catctgtcaa cttcaggcca tctactat 448

<210> 31824  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31824

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caagaagagt tgggtctagc cacggccac gagcatagaa tcgcggatga gtatgcccaa 120  
gtatatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180

atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttnc ccgattgtta 240  
 gccaacgcca aagcgatggc agacacctac ttcgccctcg aagagaatca tgggcttctc 300  
 gctattgtca gcatatgata aacttaatgg cccacataat t 341

<210> 31825  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 31825

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 tcatgctcgt gcgcttagcg cacttctgaa ccgcttagcg cgcattagtg aacttcgact 120  
 tagcgcgact tttcttggtc agcgaatgga ctgaagcggc gcgcttagcg ggatggccct 180  
 tcgctcagtg agcatgcaca actcatcctt ctttcagatt cttctcgcac ttagccagga 240  
 atgttgcgct tagcggatgg ctactaagc cattagattg gcttagcgag agggtgaaaa 300  
 tcaacacttc acaaactcgt ctaattaacc tgacattgag agaaaatgat tattaaacac 360  
 acaaaatgga agtactaagt atttattacc tatctctacc cacacataat tacaacacta 420  
 caaaataacc ataaattgga ggagtttgat 450

<210> 31826  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31826

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 gaagtattct gacctgcatt cctgactaca acaagtattc tttaggccac ttttgacaca 180  
 caatctcccc ctgagattaa aaacacccaa atattctttg atcattaagc tactcctagc 240  
 tttccaaaca attgtttgaa tgaatacaat atttaaactc ctcaaagaga ggatatacac 300  
 taagtttgaa tacaatagat aactntgcta aagccaagat tgatacttat tgagttntat 360  
 ttttgaacat ccaaca 376

<210> 31827  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31827

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 aaagggaggt ttgaacacca aggtaggttag caaaactacc aagatcgagc aataccattg 120  
 caatctttga agattccacc agctgcagct tgaccaggat ttccgtgaga ggccacatcg 180  
 atgttgcaact tcacccaaga aggaagaggt ctatgccacg ttacctaaca ataggcggct 240  
 tctgggaagg tggcaaattg tgttaaattg ttgcatcata ttgaattggt caatggacga 300  
 ccttcatttt ccatgagaca ggttactgaa agagaaaccg aggcattgat cacagagata 360  
 atatgtgcgg acaattgana ctgggtattg aatctggcgt tgtttctagc acaccacatt 420  
 cccacattg aat 433

<210> 31828  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 31828

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 gcagtagaag ggggtaaaga caatatatta ctacaattat atgaaattga gtaggtaata 120  
 ctaagaacag aatattagta gcatgaccga aaataaaata gccgctgtgt caaataacat 180  
 aacaattgtc tcaaatacag gaaaaaaaaa tactccaacg ccatcattag ccgttttgac 240  
 ttattgctgt ctttaaaaaa aatggtgccc atttctttcg aattgtggtg atgatgtcga 300  
 tgtccaacgg tgtgtcatta gcaaaccact gcaagtattc ataattgtaa gttagtactg 360  
 caaatataaa aattcagttc caagtgtact gaagttta 398

<210> 31829  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 31829

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 aaataaagga aacatcaact agacttcctc caaatggaca aatcgtatca ataactagcc 120  
 ctacttgtgg ctttagctgt tgctattgtt gtcacacgtt atcacaacac acacattccg 180  
 acgcagtcac actacggctt ctctcatatg cattttcccc tagatgcaag gggacgcata 240  
 ggggagcatg tccagtaaca tacaatatat atttcgtgtg agccatgata cgaatgaaat 300  
 aaagtgaaaa aaataagtca ataatcctta ataataaaca attatactta actaagacaa 360  
 taaaattaaa aacattacat ttgtctaaaa aaataataaa catgaacaga tttatgaatt 420  
 gaaaataaaa aatttaacta agacaaaaat aatacacat 459

<210> 31830  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31830

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 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac ttctttggag 180  
 gatagacatg tggaggagta actggtttct tgagggtgcc ataggtagca gttgtccttt 240  
 gatctgctgc ccttcattag aacttcactc ttctcatttg tctaagca ttctgactnt 300  
 gtgaagtta cattgaatcc ttcacacac agctgactga tgctgatcaa gttagcagtc 360  
 agtcccttca ccagcagtac tctgtccaga ct 392

<210> 31831  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31831

tagagcaatc tgaactttcc aagtgatcac caaaggcttc tgcacaaaca ttgacactct 60  
 ccacctctn tgctttaagc ttttgtgctg cattccctgc ttctcctta taaatctcag 120  
 atttattaga gggtgcagca gcacaatcaa gtgaatcatg atgtctctga ccagatgcac 180



[illegible]

<400> 31834

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<210>      31835
<211>      423
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      31835
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<210> 31836

<211> 390  
 <212> DNA  
 <213> Glycine max

<400> 31836

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 ttgattacga ttagccttgt aatcaattag aatagagttt tatgcactaa agaaagtttc 120  
 taactttaga aacaatcttc ttactcctac atgatgggtgc atgatgtaca tgtgaaaaga 180  
 tagagactaa gatgcaacac agaatacaac aatcaatata aatgtcactc aaaagagttg 240  
 gtcattgctaa agacaaaact tctgcaagct tcttcaagct ccaagactta gtcttcatgc 300  
 tgctgcctat atctctaaca atcttctctt tcttggtttt catgatgcca aacttgaatt 360  
 atcatcttag tgcatttgga gagtcttgat 390

<210> 31837  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31837

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 gttggcttgg catgaattcc taattgtcat aacatattat tgatggatat gatctacgca 120  
 ttctttcttt cttcacattn ttaagccacg ggccaaatag ctatcccaac gtatattatt 180  
 tctatcattt tgcgagcctt atgagccaaa cacttgatat tttattggcc actaacctag 240  
 acaaaaattt tctaccttac cttcggntag gagagcaatg gtgtttttga tggcgatttc 300  
 tatcatttgg tggctaattg gatgggaata cactattctt atgggtatta aaggaaatta 360  
 aatatttatc 370

<210> 31838  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 31838

agctttgcaa cccatatctc ttccgcaggc cttctctctt gccaaactcc aggaggataa 60  
 gttggaggac cattgccgcc cttaccgacc tcgtcacaca cccatcacca ccaactccact 120

accacacca cctctcttac cttcaccacc caacctggcc tccaccctt cccattccaa 180  
 accccaagtt aaacatctaa ccccaaaaga aatggccgc aaacgcgaac aaggcctatg 240  
 ctataactgt gacgacaaat aagggcccaa ccatcgttgt cgcgctcatt tctttttgtt 300  
 gattgccgac aatcctagca ccactatccc actcgaaacc tatgttacca aaccacctat 360  
 cccaccttct tttgaccaa cccatgccct cat 393

<210> 31839  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31839

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 cactaaccce aaatttagct tttcaaaacc tcacactttt ccactcacat cactaccatt 120  
 ctcacattta accctagggt aactctcccc atcaactcta ccagttttct accaacaatt 180  
 tcagcacaca aacatcacia agcatcatca taaaacccta aaacagaatc gtagctctac 240  
 tacatcaaac atgtcaagtt tagcatgctt ttaacaaatt ccttcacaaa taactaccat 300  
 aaggcataaa cctagtagaa ctacccatca tatctccan aaaccaata cccacgaaat 360  
 tcatgtgaga agaagtccac ccaaacctta nattcgaagt cccacaacgt 410

<210> 31840  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 31840

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 tattataagt ctgaatcgga cctacgtgtg aaaagttatg accatttgaa ttttttgaga 120  
 gattccgttg tttgaatttc gagcgtctag atatattatg cgctgaatt tgacttgctt 180  
 gtgaaagggt ataaccattt gaatttctca agagcttccg ttattcaatt tcgagcttct 240  
 ctatatgtga tgcgcctaaa tcggacatcc gggaaaaaag ttatgaccat ttgaaattct 300  
 caaaagcttc ggtagttaaa tttcgagcat ctcgatatat tattcgctg aatctgacat 360

ccgtgtaaaa agttatgacc a

381

<210> 31841  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31841

ccttgtcgac acgcgagat ttacgtnaac tnttgtgctc acaagatttg tcatactgac 60  
at ttgagtc a cgttgacggg cggagatacc ctagtggta tccgtataaa cattcttttt 120  
tgctgtctgt aaaacgaaaa gcctgatagc atgcagagac taacgtcgtc ttctgcgccc 180  
ttcgtcaatc gcggccgaca agcccggtga cacgcagaga ttacgtcat tcccgcgctc 240  
acacatctgt catactgaca ttgagtcac gctgacggac ggaaataccc aagtggatat 300  
ccgtataaac attctttgtt cctgtctgta agacgaaatg cctgatagca cgcagagact 360  
aacatcgtct tctgggccct tcgtgaatcg cggccgacaa gcccggtgac acgcgga 417

<210> 31842  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 31842

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ataatcaaag acataaatta ttgctactct tggtagatga gtgaaaagtg gaaagttgct 120  
ggtaaaaaat ggaaaaatac tcacgtagga tggataccac atcattgtag ttgatggaga 180  
agccatgcaa gggcaagtta tgatgttata aatccatgtt tatctaccaa cttttctatc 240  
ttgaaataat tgctctcgtc aattctctgc caacacatga tacttccatg ttacattat 300  
gatctttcta ttgaattttc attcatatgg tatgaaatat tectacttct tgcttaagtg 360  
caactaggaa gtacctacaa atatcga 387

<210> 31843  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 31843

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 tttatgagtg tatagataat aaaatctata aatattatac tctaataaat aagtttatta 120  
 attacttacg acatattata gcttttttta attgatcata tgttattctc ttcttgacaa 180  
 tagattacaa atcattgatg ataattgcta tcgaccgatg agttaatttc gtatgacctt 240  
 tccacctaca atacgacaac cttattatac tagaaacaaa atgttacata aaattttata 300  
 ttggtgtata atttataata gtcataatgc ctgaaaattt gaaatgaact tttaggacta 360  
 ttatatatat 370

<210> 31844  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 31844  
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 gataggagta aagtttaaata cactttccgg taattaaaaa taatttttcc tgttttcaaa 120  
 ttataattat aataatagta attgtaataa ttataatgat tgttaggatt ggttgatagc 180  
 aatatagttt ttaatagtta taattctaata ttaccagaat tactagacaa tattcacctc 240  
 actatttccc tatttaaata ccttggtgatt tgattttctgc tattaggaag aaacactaga 300  
 tttttttttt taagattgtg gtgagtggtt gatgtagata attgatacca ataaaaatct 360  
 tttactatgt caagttttgt 380

<210> 31845  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 31845  
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 actatagttg ggttctgaag atcttggttg tatttaatac agtgtatctt gtcattacta 180  
 tctaggagat gccaagtatg ctctaattca tctttccatc ttacgccaca gtcctcttaa 240  
 cttcaccata agactacatt taaagtgaac taatataagc aatattgata gggttatatca 300

tgtcatgtgt aattgagaat agccttgaaa ttcctaacct gatccttaat gtgaattgtg 360  
tcaacatata aagtgcgtct ttgtaacct catcataacc ttaccattt cattccaatt 420  
cttctgatct tca 433

<210> 31846  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 31846

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tcaaggaagt tttctcaaag aagcttctca aggaatctac ctagtctata aatagaagca 120  
tgtgtaacac ttgttgtaac ttgatgaat aaaagtctta tgagacacac ttcaaagtcc 180  
cacttctctc cctcttttat tcttcaatt ccgtgctccc ccttctctc tttcttttcc 240  
tccattaaag catcctcttc aagcttttta tctaaggcac attcttggtg gtgaagctcc 300  
ttcttccatg gtttatcccc ttgtggatgg tgccaccct cttctcttct cctttgcctt 360  
ccgctgcac tccatggt 378

<210> 31847  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31847

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accatcctac ttgatgaat gcgaaaactg tggcaaatga agagggtgag aatgaaggag 120  
aaacccatgc tgcgactgcc attcctatac ggccaagttt cccgccaacc caacaatgct 180  
attactcagc caataacaac ccttctcctt actcaccacc cattcgtcca caaaagcatc 240  
cctaaatcaa ccacaaaacc cacctaccac acaaccaatg ctaaacaacca ctttttagcac 300  
aaaccanaac accaaccaag gaaggaattc tgcagcaaaa tcttgagaa ttcaccccaa 360  
ttttggtgct ctatgctaac ttggtccctt atctacttga taatgc 406

<210> 31848

<211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31848

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 catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120  
 tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180  
 aaggcttttc ctcattcatt agagggagtg gcaaaggact ggctgtatta ccttgcctca 240  
 aggtccatca cgagctgnga tgaccttaag agagtattct tagaaaaaat tttccctact 300  
 tccaggacca caaccatcag gaaggatatc tcaggtatta gacaactcag tggagagagc 360  
 ctgtatgagt actgggagag at 382

<210> 31849  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31849

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 atggcgcttc ctctcacctc ttcttcaacc tttgtcattc ttgactccat ttcattgaag 120  
 cgcatatcca cttgcatttc caaagtgtca aacctctcac caacaaaggt ttttaagacca 180  
 tcaaactttt ccaaaatctt cgaaagaaga gatgaatctt ctcccatgt cttctcacc 240  
 atcattttcta gcaccttctt ttatccaaga gccatcatgc tccttaatat aaccaaagga 300  
 tgctatgact ctagtgccta taagggaatga tctcttgatt ggaacatacg gttcacaatc 360  
 aagaacgatg ttgaagtgtt gaacgaaaag ggtaacaaga tgaggataa gcaatgncgc 420  
 attcaatcgc aatgccttat gcatgtgata 450

<210> 31850  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 31850



tctagcctct ttttccgcgt atacttgggc atactcgccc gcgacccat gctcgtgagc 360  
cgtggctaga cctaactctt cttggtactt g 391

<210> 31853  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31853

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cgagtacttt ggatttggtg cgaccatgcc ctcttgattt ccagctggga aattggcgag 120  
tgagggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180  
ctctatagtt gggcctaggc tttagagttt ttccttttgt taaggctttg tgtctttggt 240  
tttgaattat aatacaagga tctttcttca tctgttcttg gtctctaccc attctcattc 300  
acttgcatgt ttacttcttt ttctgaaacg gcagatccga tgacgagtc cccgaaggta 360  
ctaataacctg ggacccgtct atcgacttcg agcaagaaat gaatcanacg gaagatgaag 420  
gacatgagga tgtgggactt cccccagaac tagaaag 457

<210> 31854  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 31854

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ttggggcaaaa agatgaatcg agtcacatca ctgcttcacg tactgccaaa catatttagg 120  
attggtgatg tctttgttac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180  
aaaatctaaa ttgattcaac cccatatcct gcgtaaaaat tcgcaatact tcgactgtac 240  
atcattcgca tgcattcatg cttttcattg gttgcattgc tcattgcatt ctttccttga 300  
aaaataaaaat aaaataaaaat aaaatgaact tatcaaaaag aaaaggacac gctttacggc 360  
gcccttaccg aactcgtact agagctagag taatgggtg 399

<210> 31855

<211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31855

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 aaggaggagg cttaccacct ctcccatcat gcagccatcg gattgggagc ttccatttga 120  
 gctcatgtgt gatgcctcca attatgcact tgggggttgtt tttccgcaca gagttataga 180  
 ctatcacatg tcattgettta cgcctcacgc ctctagatgg agcccaagtt aactcaccac 240  
 catcgatacy agcttttttagc tgttggttttt acattagata aatttagatc ttattagctt 300  
 ttctcccata ttactgtcta tactaaccat gcagccttga cgtacctatt gaagaagctt 360  
 gatgctaaac gtagattgat caggtagatg cttcttcacg agtttgatat tgagatcaga 420  
 gacagaagtg gtgcacaaca tgtggtgact gatcat 456

<210> 31856  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 31856

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 aaccttaaga gcacaacgag atctgcaata tttatgataa acatatgcat ctacaaccac 120  
 ccttttgaaa tttttataaa cagaaagagt gagggcttgg agatctcgaa tgtgggaagg 180  
 ttgaagagac caattgaatt gggagatgtc tcatatgaac atggatttaa taaggtggtt 240  
 atggaataga ttccatgctc attgatgtca tctttgtctc caatctgaat gtttagaatt 300  
 tcacttggat tggtgactct tgaattagcc tcgtctaggg cttcctccat agatggataa 360  
 gtatcctcct caaagtcaaa gggagttaaa aactaa 396

<210> 31857  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31857

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tctcaaggag ctcaaaacct ctaataaaga gcttaaagat caacatgata aacttgagaa 120  
gaagcatgat gagctcatca ctagacataa ttctctaaag gacaaataca ccacattaaa 180  
aattgactat gatagtctcg tggttgctaa tgaactcgct cttgagacac atgatctact 240  
aaccatgtgt taagtgtgat atagctacat catgtgatga cttgatcatt gaaagcattg 300  
agcaagggtc tagtagcaaa ggcaagagtg tggttgagtc aagcaaccat gatgattatg 360  
ccaagattaa gagtgagaat gagaagcttg caaatgagaa caagaagcta acagggttga 420  
tggctcttga gaagcaacca acanatgagt cactcattga aga 463

<210> 31858  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 31858  
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aattgaagta gatgaaaact gaactaattt tgtaagaaag tttttcactg caaaattata 120  
aaatccttta tttgtatctt aagaaattgg ttattctaatt cttagaaacg tcatttttaa 180  
aaataatttc acaaaaataaa tataaaattt tcatgtttgc ccaaaatttg tcatattgat 240  
tatcatcttc agagttgggt ctcattgtga acattaaact taatcaaact aaattacaca 300  
taatttatta tgttttatgt aatatttatc caaatttgat aatgtgattt tcagggttag 360  
tgtaatttct caagtcaa 378

<210> 31859  
<211> 158  
<212> DNA  
<213> Glycine max

<400> 31859  
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acggattgct caagaagggg acaactatta tatctaaaca tgcattctaa atcccggata 120  
tttggcaggt ggttaccacc gtcgccataa gtgacatt 158

<210> 31860

<211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31860  
  
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 tttgatcatc ctgctttgat gaatgagaaa actggggcaa atgaagagga tgagaatgat 120  
 gaaggaatcc atgttgaggc tgccattcct acatggccaa atttcccatc atcccaacaa 180  
 tgtcattact tagccaatat cagcccttct cattacctac cacccggtca tccacaaagg 240  
 ctatcccaaa atcatccaca aagtttgctg accgcgcatt caatgccaaa gcgcaaacca 300  
 naacaccaac caagagatga agtttgcagc gaacaatcct atagaattca cccaattcc 360  
 tgtgtactat gctaacttng ctccatata 389

<210> 31861  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31861  
  
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 ttgtcagatt gattgtgaaa gaatgcattg actgtattcc agtgagagtg tgatccttaa 120  
 attttaagag aaacaactat catttagtac tgatttttgc atgattctct gaagtatgga 180  
 ctaaattgcat gaattgagga tgatgaaggc catgttttga ttgtggtact actttagcca 240  
 aaagctgacc ttgtgcttgg atgatttata ccttgacccc agtttgagct gaatgaatga 300  
 ttgattgatt gaaccttgag cctatacagt cttagacttc tgctaccttg tcttaagttn 360  
 taggagagca tcatccatag aa 382

<210> 31862  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31862  
  
 agcttctact tatgtggtat ggcgggcttc cttcactttg ttgtctcaac cgcgagcttt 60

gaccaccgcc cttccttccc gtgatgcttc tctttacatc tgcttgagtg ggcttatagc 120  
 ctaaaccata cttccacga tttcctttgg catttatcag gctagttatg tcaccgctgt 180  
 ctttgccctaa acccattccg ggttcgtaac cgttcccccatacataactcgg gccatcatta 240  
 ctgctgcacg ggacaggcaa gcttgcccag agaaggagtc cacggaggaa atgcttacca 300  
 cctcacaaga ctggaaagcg gtttctaata actcctctgc ggcttccaca taaggcatag 360  
 aggatgggca gctcaccaag atgtcttct c 391

<210> 31863  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 31863

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 cttagagggg atagggtcaa aatgcagaag aagtagcaat caatttataaa atgttcttta 120  
 aatggacaaa attgattgca acaaaataaa tgagataagg gaagagagaa tgcaaacaca 180  
 atttttatatac tgggttggca aagtccgtgc ctacgtccag tactcaagta cccacttgag 240  
 atttccactc cctttgtaaa aatccgttta caaagtctga accacacagg gacaacccat 300  
 cccttggtgtt caggaatcat tacaacttaa gagaccctta gtcccttaat cagtctcttt 360  
 gaatgagaag aaagaaagaa gaattctctc ttgaagagaa ggatattaca attgaagtcc 420  
 atggagaaac tcttaataga tttgcaagta t 451

<210> 31864  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31864

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 acatgggtgc ccatcttcac cataccaaaa tctcttttt gatatgacaa aaaaaaaatc 120  
 cttcatgagg agtaacaagg aaaaatactc cagagtcaat tatccatata caataatcag 180  
 atgcaatatt aaaataatct tcattaccga taataaaaaa cattttcatc atttaatgac 240  
 agagaagtag tggttccacc tttattcttc ttctttgggt caattcaatt agcatggata 300

gtccagctct tctgatcttt cttcaagaat ctaccctcaa acttcttatg ggctgactnt 360  
ccgtaatagt agaaactaaa gccttt 386

<210> 31865  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 31865

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acaaaagtct ttgaacttgg agtgtaaagt atgcacaagc ccaccttgac tagtgtaaa 120  
attcaatttt ttattcaa atatggagca gtattaatca aactataaag gtcagagagt 180  
tggcaacacc atgccattaa ctaaatatcc caaaagctta cagtgttggc gaaagctcat 240  
gatagtttta tctggcagta gacatactc agtctcaag ttcccaaac acaagggaaa 300  
ccgtaaaaat gaataaataa agacactcag acacctattc catgcttatg aaaatatttc 360  
tagcatctct gctattgcaa aagtattgct acaaacggct tgcatgcaca tcatccaaac 420  
cta 423

<210> 31866  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 31866

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ggaagcgctt cggcttggat tttcttcacg gaactaattt tctcagcta ttctgagaga 180  
gagagaagtg cctaaggggc tgaacccttt tctacttcac ttctccacct atttatagaa 240  
aattagggga gaagcttgcc acccagctca cccaggcgag caaggttgct tctccagaa 300  
gcaacagcct tctggaggaa tcttctggag ggcccaagtg ggcttgattg ttatttgca 360  
ccccattttt actaaataca cc 382

<210> 31867  
<211> 437

<212> DNA  
 <213> Glycine max  
 <400> 31867

tgacttaact cagtattctt tgcctacca agtcaactctt ggctctaaaa aaatcaacaa 60  
 gatttgatgg aaggttgac attcgctaatt attacatctt cttacacatg gatattcttc 120  
 tcagtatttt acttttttct ctacagattt agaaggtggt tcgagagctt actatctata 180  
 tagagattta caaaattttt tacagaacag aatagttcat atcttgatct tccaaacttc 240  
 tctatatata gccttcatct tcaagtatat gtagcctcac aacgggtgga tttttcactc 300  
 tgttcttcgc ctgaattctt gaggcgattg gagcttgctt catatatatg tcccttctca 360  
 tgcgaagttc atgctgatac gtctgtgagt cattgacttc aacaagtgtg tgacttcttt 420  
 catcatagca catctat 437

<210> 31868  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 31868

agcttctgat gagctctaatt cagtattttg atttatgagc gacttacatc aaatctcgtt 60  
 atatggatca tcatcatagc aattacacat gtaaccacac cgctgctgaa ccatatgatg 120  
 ctaccaattt gtaattcagt taattctttt tactgtaatt gaaaattcat aattaccaca 180  
 atgatattct taattctatg atgctatatt attttctgat ctattgtaac agttgtagag 240  
 gttatttatt agcttgactt gctgaataat attcattcga ttatctctca taattggttt 300  
 gaattctctt taatttgatc ttttacagga ctctttgttc ttaattataa gctttggatc 360  
 tttacatata tatcat 376

<210> 31869  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31869

ntgagatagc ttctggcctg agaatcaatt gtgctaagag ccaactcgga gcaattggtc 60

agtctgaaca gtggatcaga tgtgctgctg atttcttgaa ctgtggacca ctacagcttc 120  
 cttctgcta cctagggctg cctataggtg ttaatccgac aaggaaggtg gtgtgggaac 180  
 ctattatcaa taaattcgag gctagattga acaaattggag gcaccaaca tatcatggct 240  
 ggtagaatca ccctaactaa tgctgtatta acagctctgc ccttgctnta tatgtctttt 300  
 ttcacggccc cttcagcaat gattaacaag ctactacca ttcacagaaa gtttcttt 358

<210> 31870  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 31870

tatgcatgca tataataatt gtcttatgca ttcttaagtg ttgtatgtgg acgttatcta 60  
 gttctcgat ttaataagaa tggatcacc attactttgt ttttactatc atgttcaccc 120  
 gtagtatgta agattgatat cccaaactat gattatgaaa tcaaatttct ctatggcacc 180  
 agatgggatt ttcacatgga cctattacat atcttgactt tgaccggccg ggtatcgact 240  
 tcctctttgt atggcattca caatgcggtt tatacatatg caagttgctt aaaactaaga 300  
 ctattgctta acaaaatttg tacttgaagt atttgacata atatttctta taaaaatata 360  
 tttgcttggt gcaaaattat ctttaaataa taaaaagat agcttcacgt caccaatcaa 420  
 ca 422

<210> 31871  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 31871

agcttgagaa gaatttgaga attactcaat aggttcttga actaatcgaa atttattaat 60  
 cgggttccta attaaataat ttttttcaat tgaattctta aacttctatt tgtttttttag 120  
 ttagggttct gtcatcaact ccgttaagga aattccatat gaaacctttt ttttttcacg 180  
 aactgactcc agtttcactt cctgaaactt tagagcatgc ttaggacaaa aactttggag 240  
 atttcatata ttttttttag taaaatagtt gttctgtgtg taactattta ttgcacatcc 300  
 caagttgact ctctccaatt ctctcacatt gttatctttt tctattttcc ttttcatata 360

<210> 31872  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31872

cgccacgcgc gcgcgtggac ngttganatt ggatgccant tactatacac gcgacactat 60  
 acaataactcg cgcttacaca ttatnagatg tcctatgcag ccactctgag ttctttctat 120  
 gcacgctgat ttgaaggaat gtttcctatg cgactaatta cactgctaac cgtgatatta 180  
 tcacggataa caattctaata attcctaata aaagtgcagtg ttgagcactt acattcttat 240  
 tctagaccat caattatgat tcatgaacca cgattccttg aatagaatcc ccacactcgc 300  
 acaaattaat gtatactata tatgtaacgt gtctattgat gaatatgtat gtcaatctgc 360  
 accagctgtg agattgagat gcaattgaac atcgtttgag ctacattggc attatcgagg 420  
 cgagttcatg ctcataaggt agtgagactt gtcattacaa actgacgaga tttcttcgct 480  
 cattcctgac ctactccaac ccatcatgcc ttcn 514

<210> 31873  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <400> 31873

agcttgtggt atgccctggc cttgaaatga ggtaacctcc actcccctaa tcattcttaa 60  
 cattcatgta caataaagaa aagacttgac atcgagagta tttaagcacc tgaacgaaca 120  
 aacaaatttc ttgttggaac gaattatggc ataacctctg gaaagatgaa tcccagacta 180  
 agagtgaagt gaattcatat tgatttggaa gggtagttga aatgagaatg agatacttgg 240  
 gtacaattca tcagataaaa caaaacaagg cttcatgaat tatgccaccc acaaacatat 300  
 cacaatttat aaagcaatgc tatcatttaa atgatatcaa tatgcggcag tgattcatat 360  
 gatcacaatt ttcaaagaa tctttca 387

<210> 31874  
 <211> 357

<212> DNA  
<213> Glycine max

<400> 31874

ctataacttaa ctatctctta ttttactaat gacatcaatc tttattcggt ttttaactac 60  
caaatttcat ctttgatttc ttttctttgt tgttgctagt aatcaactac tgcccttate 120  
tttattagta tgcgacgagt gctagacaca gagtaccaga cttgtgtata tgatgctgct 180  
gtcttaattt ttggtaaag actcgcgtat atgttgtttg acatacatca attcacgaac 240  
caacacgctt tgggaaacca ttattgatac atgcacgtgc tccgcgcact ttacctacce 300  
ataaataata tacatttgat ttacatgatc gatataataa tacttaacta attatgt 357

<210> 31875  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31875

agctttacag atatttatct tctttgattc ttgagctatg catttagagc taaactgtta 60  
cttggagttg gttaggccca ataactgcc aaggtacagt agttaaagtc acagaaaaaa 120  
gtatgaattt gtagcataaa aagggttacc ggtagtacct gtaacaattc agaataattt 180  
taagatgttt ggtctgcgga agggcagcaa tgatgctcat gttttaaaac atccttgctc 240  
atgaaaataa ttctaagtaa atgatgtttg gtatgcanaa cttcttgaaa ttgagctgca 300  
accatatnaa aatgttctat ttacactat acatatacgg caaacatgac gacataaatt 360  
catcagttca caatattaca ctatagctc 389

<210> 31876  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31876

ntgcaataaa agacaaatga aataaacact tttttagacg acaattcttt ataaaaaaaa 60  
attgggaaca aaattcatct gttaaataac ttatctgaca aataattcag acgtctacac 120  
ccatgaataa aatttgggtt tataaaataa ttatagagta ttacatgga ttcagatagc 180

tgaagagagc cccanagaag ttaaaagtat catgaattca cagttttaga agaaaacaaa 240  
 tgtgaaattg tacaaatgta cttgcatgat gtaagcctgg aattaataag tctgtaattc 300  
 ccgataaaaag caatgcccac agatcctgtt acaaatttag ctgtacataa actaatgttt 360  
 aaaacaattt agaataagca tgcattctgcc aggatagcaa gtagctaatac tgcattct 417

<210> 31877  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 31877

agcttgaatg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcaga 60  
 aatctgtacc tgtcacaagg gtttgtggtt tgtgctcttc tgctgaccac catacagaac 120  
 tttgcccttc catgcagcaa cctggagcaa ttgagcaacc tgaagcttat gctgcaaaca 180  
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240  
 tctccagcaa cagatacaac cctggatgga ggaatcacc aatctcagat ggctagccct 300  
 caacaacaac aacaacagcc tgctccttcc ttccaaaatg ctgctggccc aagcagacca 360  
 tacattcctc caccaatcca acaacaacaa cag 393

<210> 31878  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31878

actacgtaca actttntaag tgactggttt tgaagaaatt cccaaaagtc acaactttta 60  
 agagtttttg ttcaacactt gctttgtcaa gaaaagttca ttgggcaaaa acttgtgtta 120  
 ttctatTTTT cttcctctcc tccattctta caaaaagctt ttcaaaagac ctattcttgg 180  
 tgactgtttt caagagaagg tcttcttggg tacaaacact gaacacaagg gaccaacgct 240  
 ccttgggttc attgcaagaa gcaggacttg cttcttgggt cgactggac acaaaagcaa 300  
 acgtcttttg gggtcattgc aagaagtggg tataacttct tgggtgttat cattggacac 360  
 aagggaccaa cgttccttgn gggtcattgc aagaagtggg aataacttct tgattgtaat 420

<210> 31879  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 31879

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 atgaagtcct tcaatggtga ttttccacca tggagatgca tcggatggct aaggagaaga 120  
 ggagaggggt ggcaccatcc actagggat aagccatgga ataaggagct tcaccaccca 180  
 taatgtgcca tggataagaa gcttctagag gatgctttaa tggaggagaa gatagagaga 240  
 acggggggagc ccaaattga aggaattaaa caggagagacc gctgaacttt tcacgtgcct 300  
 cataagaatt ttcttcatta aaggtacaac gagtgttaca catgcctcta tttatagaat 360  
 a 361

<210> 31880  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31880

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 gattttggat gagagagaga aaagtgaatg tttatgcaa aatgcttggg cacgtctgag 120  
 tgtactgatg ttacacttca ctaagctatt tttgactctc tcgcttagcg aaatgttgtg 180  
 ctaagcaaac tcgagagacg ttcggtttct caaggcctgt cgcttagcga acccttgccg 240  
 taagctatct tattattatt attatttttt acaaatttcg cagctacgct tagcaccgga 300  
 tcgaaccgnt tagggagatc tgcagatcag aaaacctaca actctcgcta agccgggctc 360  
 tgggcccact tagctaaaat catgcattat gagtgcagag gagtgggcgt tgagcggaca 420

<210> 31881  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

669707 9077260

<400> 31881

ctctcccgcc atcctcctcc ttcccacact cttgctaata atatcaatca tatactatca 60  
aatnnnnenn accgcggggn ttgattgca tcatgaccat caaggcgaat tccactcggt 120  
accccgagat cctctacagt cgacccgcgg cctgcatgct tategtccac agcagcaaca 180  
tctcgagcat cctcatgcat aacattcaat gatgccaaaa cttctttaaa ttcagacact 240  
acccaatttt cttcaacggt cgaggagtca tcatgagaat cacaccttaa ccacacatct 300  
gcaattatct ctacaatata atgcgtcaaa cgatgatgac tcatcttttc cccaacctat 360  
gcatgccatc ttaccgcttc tcatacttct tccctttcat attaccataa cgcttcttga 420  
agcacataag acaatttgcg tccccctca gccaccact ttagagaaat ttgagtcttt 480  
gaaacttaat ataaatatcc caacatcttg acaaccaa ataatcctca aatcttcctt 540  
tcactacc 548

<210> 31882  
<211> 222  
<212> DNA  
<213> Glycine max

<400> 31882

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atagttgtca agcaacatgg ttctgctcaa tgccaaacaa accctactat gtttggttaag 120  
cactctctgg atgcaaagac acccctgctt attgttcatg cagatgatac tcataattct 180  
acgacacgat tatgatcaaa taaattatct gaagaatctt ct 222

<210> 31883  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 31883

tgcttctaaa ttaaattgtc ccagaaacgt atcctataaa caaagaacgt tctcttctg 60  
tgtgatagat gttctcgttt attttcaact gttgtgatct ctctccttt ttttttgctc 120  
tatgtctctc cttttctccc tcgattttct tgatctttat ttatagtaat tcctaacaac 180  
ttatctaata atttactgc acatttctta tcttatttta tcatatatat acctataaga 240

taaatcta attttatctt ctttcattta tcttatatc ttctcagatc aaccactatg 300  
 ctcaataata gcacataaac taaatatatt attttatctt atctaaatca tatatatata 360  
 ttctatccta ccaaataat tatttta 387

<210> 31884  
 <211> 331  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31884

tgaactatag ntactccgct tgaatgggtga ttttnccttt cttaaaaata attcttgtgt 60  
 tttgaaacgg gttggctgtc tagaggccag ttgacgctgt gtttcattct gattccttca 120  
 gcgatgtgca tgtacgcgtt aatcctgttt atgtccacac tcttccttta gctctttcaa 180  
 ctgggggtcca ccatgcatcc tttttgccac ccttagtgga agttcctatc atatcatctt 240  
 tgatcccttt atatacataac tgggatccag ttcttaaaat attnctttta cgccccctt 300  
 catttacttg ctgacagatt ttatttgatg a 331

<210> 31885  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <400> 31885

tagcttggag ggatttatgg ggaccgggtg ttgagaggaa cgaggataag ggctacgtgg 60  
 gagtacgtga gctcagctga aggtgggcaa ctgggggatgg tggatttttg tgtgatttgt 120  
 ggatgtggag agtcgacttg caccatcgcc cgatcgccac ctattaccac atatgacggg 180  
 taccataa tctacaagc ttgaagtga aaagtgtgga agagtcagtc ttctacttt 240  
 tattcggtga ccacagagt gtacatggag atatgtccgc gcgtcacgca cttgtggac 300  
 gtcaagtgg gtgctatttc ccaaaaccaa gcttgaccaa tccacacca acctcgctcat 360  
 agtcagtcag tgagaacctg t 381

<210> 31886  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 31886

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cgatagccac cgtttctgga gcgtacagca ccatcagcgc ttccaggtca tcaaacgatg 120  
gtcgcttcac atagagagggc gcattccgct cacggaggat gagtctacag acttttcacga 180  
agagatagct cgcacacatt ggacgtccct ggtgactccc atggctaacc ttgaccata 240  
gatagtcttg gagttctatg ctaatgcccc cccaccacg aggcgtgcga gacaatgcgt 300  
tatgggtg 308

<210> 31887  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 31887

agcttgggat ctaaactttg cggtccttga gcggcattga ggtggtgact tgggaaccct 60  
agacagggag tcgaagagtg agagcacaag agagttgagg gaaaaatgaa atattaaaaa 120  
tagtgaaaaa tattttaaga tggttttgta taaaccatct taaaattgca aaactgtcgt 180  
aaagctattg cttttattta caaaaatgac actagacaca tttccactc ctgaaaatca 240  
attgatctac attttaatt tttaaactaac tataactcct ttctatttta agggagcact 300  
atcatcaatt aattttatct accacaaacc atttaaatat cagaaaatca tagagaatat 360  
tattttatat ttattaaatt aaatatg 387

<210> 31888  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 31888

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ctcataagtc aagatcactt catgataaca aagatgatga tattcacgaa tgagtttaag 120  
attgagtcaa gaacacttta aagatcaaga ggacacttga tttcaagaat caagaatcaa 180  
gattcaagat tcaagattca agaataatca agatcaagat tcaagactca tcgattcaat 240

aatcaagaga agacttactt aagataagcc caccagttt ttcaaccatt gagtatcaca 300  
 agaagttttc acaaaatcat taccaaagag ttttactctc tggtaatcga ttaccagact 360  
 atagtagtcg attaccagtg gttttaaaac gttaagactt tcacaat 407

<210> 31889  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31889

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 ggtgattttc cacaatggag aatcatcgga agacaaagga gaagaggtga gaggaggcgc 120  
 catccactan ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180  
 agaagcttgg aaggatgctt caatggagga aaagaaagag ggagagaaag agagaggggg 240  
 gtgcacgaaa tggaaggaat aaaagagga gcacgcggaa ctttaagtat gtctcacaag 300  
 actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactacgtag 360  
 cttccttgag aagctctctt gag 383

<210> 31890  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <400> 31890

taagagaaac ctactcttag cttcaaattt gaaacaccta ttctagcatg cagtaaaact 60  
 cttgcatatg tcgtaacaat gcgtaaaaag catatgaaat agaataagg agagatacaa 120  
 cctttacatt ctaatgcaag aacaacttga ttgaatggac ctctcttgat ctcaagtgtg 180  
 tttacaactc actaatcaca caatcttgag agaaactttg ctttagaaat ctctaagaaa 240  
 caaaaaccga agtttgtgag ttgtaaaagt tccccacaga ttgttgactc gagaacacaa 300  
 ggaggggtaca tgtagagaag atagttataa cgggttgta tcaattatta cgtgaacgta 360  
 atcaattgca ttctccattt aatcgattaa tgtgtccttc ccaaatacta gagaacat 418

<210> 31891  
 <211> 389

<212> DNA  
<213> Glycine max

<400> 31891

agcttataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taggacgcat 60  
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaattg 120  
gttataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180  
tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240  
aacttttatt ttcaaaacaa ttacccattt cttgacatat cctataatta aagaaaaaca 300  
tgcaaagtcg tacgtgcaca cgaaattgac ccaaaatatt aaactgaaaa tctgacgaaa 360  
ctaacaacat taacaaatta acacaacta 389

<210> 31892  
<211> 235  
<212> DNA  
<213> Glycine max

<400> 31892

tatacccatt ctttaacata tctcgagctg ccatcataga ggtatcatgc aaacgtgggt 60  
gtattgaacg agaactccaca tatacactat ctacaatttg caacgctgga aacgatttat 120  
ctaattgactc ctgtattgct ctaacataat gcattgaaga tggacacctt actattatgt 180  
aataactaagc tgaaactatc acaagctgac ccccatcaca aattttaatt tctta 235

<210> 31893  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 31893

agcttttggg atcaattacg agcgtctcga tatactacgg gacataatcg gacatgcggg 60  
taaaaagtta ttgttatttg aatttgctca tacgttctgt tttcaattac gatcgctca 120  
atatattatg ggattcatcc ggacatccga gtaaaaattt attgccattt gaatttgcta 180  
cgagcttccg atttcaatta cgagcgtctt gatatacaac gaataacaat ccgacatccg 240  
agtaaaaagt tattgtcggt agaatatgcc tccagcttct gtttcaatca cgagcgtatt 300  
gatatattac gggactcaat ccgacatccg agtaaatagt tattgccatt tgaatttgct 360

catagcttct gttctcaatt ac

382

<210> 31894  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 31894

ttccttgtcc cttgatatat ttgagggact tatggtcatt atgaatgaca aattccttgg 60  
gataaacgca gcgttgccat gtattcaaag cccgcactaa agtatacaac tccttatcat 120  
aagtccaata gttaaaggta ggaccactta cattttcaca taaaataagt cattagatgg 180  
ccttcttgca ttcacacagt cccaatccca acatttgaag catcaaactc aatctcaaaa 240  
gattcctgaa cagttggtaa cccaccatc ggggcattcc tatcttttgc ttaagaaaat 300  
tgaaagcttc ttcttgtcta tattcccat tgaaaacaac atttctcttg accaccttat 360  
tgagaggtgc tgcaatgtgc cta 383

<210> 31895  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 31895

agctttgatc taccaccacc gcagccaccg tcattttaat tttctattat ttaatattac 60  
tagtacttct ctttctagcc gtgtatttgg ctatattaag acatttggat aatttagtat 120  
ttctttatct gcatggtttg aatgaacaat tatgaattat attatatgac tatgtgtttc 180  
atatttttta attattcata tatgttttat ttgaatatta tgaatgactt tttggattat 240  
aagacattct atgaagtatt atctttctaa gattgatgaa tgacaagtta tctttttgat 300  
tgttttctat tcttttgtat aacatttatg tatggttttt atatttcttg cttttctaag 360  
tttgatgaat ggtaaatta tcttgtttta ttg 393

<210> 31896  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 31896

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tttatacaag aattctgctc tgataccact tgttggatgt cgcaacctac ccttcggcgg 120  
gagggcgaag cgtgactcgt gggatgcgtg ttccacaaaa ggaatacgcg cggagtcgcc 180  
accaacgttt atttgaggaa aatgtcggaa aaaccggaaa atatgcatc tacgaacttt 240  
taagtgaag gttcgggagt tgtatttacg cacggngaac gattagcacc ccaacgtccg 300  
tccaagga cgacagcctt taatcgaatg tgcaaacatg actctgattc tcttatgttc 360  
cctctttatg tctttatatc ctntataccc tttttatatt 400

<210> 31897

<211> 395

<212> DNA

<213> Glycine max

<400> 31897

agcttgccctg tccgatgcag tagtaatgat ggcccagatt atgttgggga acggttacga 60  
acccggaatg ggtttaggga aagacaacgg cggcatgact aacctgataa atgccaaagg 120  
aaatcgtggg aagtatgggt taggctataa acccactcag gcggatataa agagaagcat 180  
cgtgggaaga aagagcgggt gtcaaagctc gcgggtgagg caagaaagtg aaggaagccc 240  
gccctgccac ataagtagaa gctttataag cgcgggtctg ggaccgaagg tcaagtgtcg 300  
cgatatacga agatgatgtt ccgagtacat tggatttggg acgaccatgc cctcctgatt 360  
tccagctggg aaattggcga gtggaggaac gcccc 395

<210> 31898

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31898

ttctcataag tcctaaatga catttcaaac taggattaac tccctttaac ctccaaatac 60  
cattaaatcc agatttggcc ttccaactct caaagtctca ctctttttcc actcataaca 120  
ctacattatc actttctaac cctaggttaa ctctaccctt catccctagc agttttccat 180  
ccacaatttc agcacataaa catcacaagc atcatcataa aaaccctaaa actgaatggg 240



<210> 31901  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31901

agcttgatg attatggggt acccgtcata tgtggtacta ggtggcgatc gggcgatggt 60  
gcaagtcgac tctccacatc cacaatcac acataaatcc accatcccca gttgccacc 120  
ttcaactgag ctacgtact ccacgtagc tcttattctc gttcctctca acaccgggtc 180  
cccatcaatc cctccaagct tccacaacat ccaagcaatt ccacatccaa acatcatgaa 240  
ctatcaaaaa ccaagaaaac agggcagatg cataaaantc ccccaaaaaca caaccaatac 300  
cacagctttc cttactcaaa taccacagta acattctttt cgttccaatt cgttcaccgt 360  
tgatccact cgaaaatttt actgg 385

<210> 31902  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31902

tctatagaag gttcgttcct aatttctcta caattgcac acctctcaat gagctgggtga 60  
agaagaatgt ggcatttacc tgnngtgaaa aacaagagca agcctttgct ttgctcaaag 120  
aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgtattggt acaaggtggg caccctattg 240  
cttatttttag tgaaaaactt catagtgaca ccctccctac cccacctatg acaagagctt 300  
tatgccttaa taagagccct ccagacatgg gaacattacc ttgtttccaa ggaatttgct 360  
attcatagt atcatcaatc acttaagtac attagagggc atagcaagtt aaacaag 417

<210> 31903  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 31903



agccgagcag tgttgcgctc agcggatggc tcgcttaagc tcatattggc tctcgacacg 300  
gtgaaaatca tcacttcaca aacttgccta atttacctga cattgagaga aaatgattat 360  
taaacacaca aaatggacat tctaagtatt ta 392

<210> 31906  
<211> 238  
<212> DNA  
<213> Glycine max

<400> 31906

tgtatagatg tgtatgtgct aagtcgagat cttgtctcgc tattacgcaa ttagctctct 60  
gacggacaat aatgcttaga gaaccatgct cgcttagccc gtatgacttg tcagctaaga 120  
gaggggtgtct cgcttagcca gagtctggat tttcctgtag atgcactaag cgcgccctgc 180  
ccgctaagcg tatcagctta tattctgaaa gcgcgctaaa cccgatgtct cgctaagc 238

<210> 31907  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 31907

agcttcgacc cctccgctcg aaacctagtc cagaacttct ccttcggatc aaaatcaccc 60  
tgcttaagct cccgcaaaat cgaagcctcc ttcccaacag tgtacctgca caaattaata 120  
gttaaaaccc aaaaagcatc taaaattctc aataaaatca aaaacaaaaa gctctagtgc 180  
ttcattcacc ttatcccca a ttgcagatta agcatcaact cataattctt atgcccttg 240  
gaaactgttt atccaggtct tttcacctcg ctcgagaaaa acaacggttc ctctcatctc 300  
tttctctata caatccgacg tcgttccgtc gcggtaaaac atcgacgcct tcacattatc 360  
gataatatcg cacgtgatgt caccggctcc acc 393

<210> 31908  
<211> 243  
<212> DNA  
<213> Glycine max

<400> 31908

ctatcaaagg cttggcaaga caggtagttg tggatgcatt gacgtacaca acagtgcacat 60

catgatactg tactatctat gcacttaaaa cgactctatt aaagggtaa gactacgcta 120  
 ctgcatatgt gatctgagat gagatctacc atttatacct gccgaaagga catacacaat 180  
 ttatgcacct tatcaattat gacgtactca ttacctacct ctgacttgaa ggtgatacat 240  
 gac 243

<210> 31909  
 <211> 534  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31909

cctctcactc tacctgtgac catatttgat aatacacgca tcgaagcaca cgacatgacc 60  
 aannnnnaan acagccgagc ggtgattggt gctcgcacna ccanaggcga aacgagctcg 120  
 gacgccggga tactatagag ccgacctgaa ggcattgcttg ctttgaaatg ggatttcgctc 180  
 caactctttc cgatgttcgt ataaagcgca atgagcatag cgaatataca tgctgcatct 240  
 gcaaagctat gcatgcatgc atacgtgcgc cttaatacac acttcaatca aaacgaggag 300  
 aaaactactt cttctgtttg agaactcgta atacattaaa atactacaca ttgacagaca 360  
 ctaccttccg tattctcacc ttgaaataag atcactcata aaaacgaaga accacgtgtg 420  
 tgagtaacaa tcgccngcc cagccctgat catcagttgt gataaagaat atgctaaaac 480  
 agagtacgcc cgcgtaccat tactgctgat cgatacaaac catagggatg cccc 534

<210> 31910  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 31910

agctttcatt cagtgagaat ttatccacaa attagactcc aaagtttatt aaaacagatt 60  
 aaaaagaatc tattttaaca agctcaaaaa gaagaaatta acattcacac ttagagaatt 120  
 gagacattaa aggtattcat aagaagaagc tcttcagcct atagtaactt ctgtataagt 180  
 tgacttgatg tttaacctta aagtgggtggc agcacctccg tatccctcag tcgccgccgc 240  
 cacaggctgc tgccggagtc gttggcgaag aagaaccgtg atcgggtggtt catggcaccg 300

agcaatggag ggtgtgataa tggggatatgg aagtgtagta gtttgagtgg agaagctntc 360  
aatctcaaaa agatcagaac ttg 383

<210> 31911  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 31911

gtaggaagtt tgtttttccg aggtctccac ccaaacatgt tatacatgct gcttaatttg 60  
ttgccgggac taagaatgct tctccaaata tatataatat ctcaaggaac aaggctcttt 120  
caagtatttg cgtcaacctt tgtactaaaa gttacattat ctaatatata tatatatata 180  
tacatatata tatatatata tatatatata tatatatata tatatatata tatatatata 240  
tatatatata tatatatata tataatacgc cccccccct ataccgagac atatatgcga 300  
ttgtgagatt tattcacatg tgtggcatat caatgctccg gagacactgc gagagaaaac 360  
acccgatcct cgcattacgt ctatgtattg cgactgacac gaggc 405

<210> 31912  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 31912

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagc tgaaagcctt ggaggaaaga tgtatgccta tgttggttgat gatgatttct 120  
ccagagttac ctgcgtcatc tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagaaaaag actgcgtcat caagagaatt aggagtgacc 240  
atggcataga gtttgaaaac ggcaagttta tcgatcctgc acattgaacg catcactcat 300  
gagttctctg caaccatcac accacctcaa aatggcatag ttgaaaggaa aaacaggact 360  
ttgc 364

<210> 31913  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 31913

tgatataaac tgacgaaaag aaagcccttg tgaacgtttt ggacatgata gctaataaaa 60  
taatacatga cttgaaagtc tcggattcta aaacttatcc gttgtagaac gaataggggt 120  
gaataacgac ggaaaaactt cacggatttg ctcacagaaa cgtcttgga acacctcaac 180  
ttggatatcc ttcattgaaa cacttttatt tcacccaaaa cagctgatat gcatagacta 240  
ctgtgttagg gatattagga acgacattgc tcccctactc atttgatccc ggggatgacg 300  
ttgctgttca tttttgccag gcgatatggg ttgactactc tagaaacatg cccgtcttta 360  
tatatc 366

<210> 31914

<211> 386

<212> DNA

<213> Glycine max

<400> 31914

agcttctctca tgggtggctta ttgatgtgat taagaataaa aaattctttg tgttctattg 60  
cacctgcgaa ttatagtaat gtacgaagag gtatcaacac acctcttgac tcatagcatg 120  
ttaatagtta gagccaaagt atgggtgttg attaggtagt aacgcagggt atacaagtct 180  
taaagctcta gacagagtga aagttttgca tctcccacca tacctattaa ctattattgt 240  
taaatcggtt tcaatattaa cttgaaatga ttgtcccaca gtgcgcaccg cttatgttta 300  
ttgaataatt gattcagtag caaaatgtca tgcacaaagc tattcttgtc aaaagggtccc 360  
atgacagata atttttaaac ttctat 386

<210> 31915

<211> 376

<212> DNA

<213> Glycine max

<400> 31915

agctttatct tcacagaaat cgtgtgattt ttttttctct cggcgagacg attgtgccta 60  
agaaaatctc gagtagttga catgcgttgc ggttcacgcc gacgggaacg ggtgacaacc 120  
agaggattac tcccgtcctg atggaggcta ttagcggctt aatcgaactg tcttgtcatg 180  
gctgtaccgc ggtaaataaa agattcttct ctgaagattc gaatcctact gatgaactta 240

ttcgttgcag tatgctgtga atatgaatgc ccgctacctt ggcattccacc gattgttgta 300  
aagtgaagc tgccggtgcc tacactatga agtaatgcac tttttgcttc ctatcctact 360  
catacattct gacttt 376

<210> 31916  
<211> 476  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 31916

tgcgggcacg cggcactcgt gcggtcgann acnctgatna ccctgtgata tccangtgat 60  
actatagata tctgaagctt ggctatctat acgagcatta aaagagatgt ttaaaatgtc 120  
agtacaattt gtcgacgagt atcagaatgc tttaacccat tataattaga tcataatgaa 180  
cgaggtcttt caagatttgc gtcaaactta gcactaactg attattcttg gacactatat 240  
atggcatatc aatccacatc gatctatata ttatgacaca tatatactga gaaatatcaa 300  
taatcctaga tatgtggatt agaacttata acttccgcac ccccgacac ggccgcgcac 360  
tgtatcgcat ctgatgatta caatagaaac ggggtgcttg ttatttgaca aaagatggct 420  
acagacatca cccccacgaa gagcttctat taattgacaa aacaccacca ggaccg 476

<210> 31917  
<211> 393  
<212> DNA  
<213> Glycine max  
<400> 31917

agcttgcaca agccctgcta aggatatatc atatatgggt ttcttcgctg attttttcct 60  
tctctttttc ttttcatttt aagcatcatg atcaaattct taaaaaatga tccgtgacta 120  
caatttcaac cggttcttca aggttttttt gtagtcaacta gctacaataa caattacagc 180  
catatatata gggttctctac aatttcttgc aacatcaagg atcgtgatgg aactatatct 240  
gctgtaattt aaaaccttga ttatgagttt ttttctgctg ctgcttaatg aggggtctaat 300  
tttgtctctc tctggattta tgggtggttg ttgtaggtag ttaattgagg taagttcaga 360  
tccttgaggt ttggttaactt gcttctaacc cgg 393

<210> 31918  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31918

tgaaaaaac cactccgttc aggggatttt cttcctgcac cagctatattt tcttctagat 60  
ccaacagtga gagagaaatt tcaaaaacac cattccttaa gacggatctg taatgggtctt 120  
atggaatgtc aatccgtttg tctatacata atttttaaaa atgtatttta caaattaatt 180  
taaaattaat agctcatgta gaattcgaac ctatgacttt aagggttatta acacaacact 240  
ctaagccaa taagccaatt atattataaa ataattacat tgttttatgt aacactaaaa 300  
tttctaattg atatttaattg cacatgtaag tntatataat aattttttgtg ataattttga 360  
tctcataatt aattctttta catatataaa tttttattaa acgtataatt tttatt 416

<210> 31919  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 31919

agcttgacct ttgtggctat tgccatgaat ttgcgggtga acaaaagata tggctagttg 60  
tatatggatc tagaaattag aaaaaccata taaaataggt tacgaaagga ctctagtagc 120  
tatcttacga ttatattttg aaataggaaa ctaatttgac tgcacagctc atgttatttc 180  
gtgtgacttc agtccgagta gaatgttaat gagctctttt ggctgttat ctttctatta 240  
atattgtcgg ttgtttcttg gtacaacaat ggctggcctt acggcccggc gatttacaga 300  
ggatagccgt ccatgatcca tgatccatga tgaagcagtt at 342

<210> 31920  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 31920

tattaggttc tggatatatt agttcaatgc tataacaacc caggagacct tgcgtgatcg 60  
tttttttaatt agcttgattt gaaccatgtc tgagtttgta atccggacta tctaattgtac 120

aaattagagc acctaataatt aagtgacatt tattaattaa gcattacctc cttttctttg 180  
acattaatga ggcgactact attaacctcc cattaaatgg ttaaacaaga gtgagtgacc 240  
attacacaac attgtagtat ccatcaatta ccctaacgcc tcctccatgg aaactcttac 300  
aatgtgtttt taagttactc tttatgt 327

<210> 31921  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 31921

agcttgtgca ttcaatatcc tgatgagggg gttccatatt ttctaaagac tagactaata 60  
catttgctgc ccaagtttca tggctcttga ggtgaagatc ctcataagca tcttaaggag 120  
ttccatattg tttgttccac catgaagccc cctgatgtcc aagaagatca tatctttcta 180  
aaggcttttc ctcatctctt ggagggagtg aaaaagatt ggctatacta ctttgctctc 240  
aggteccattt tcagctggga tgaccttaag aggggtgttct ggagaaattc cccctgcac 300  
taggaccact gccatcagaa aagatatctc aggcacagg caacttagtg gagagagctt 360  
gtatgagtac tgggaaagat tcaag 385

<210> 31922  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 31922

tatccttacg gcctgcctcc ggacttcacc ccccggtcca ccccggaaga tttaagccaa 60  
gcccctactt ttgaggggca actcccacct tatgaagact atcccgggca agacgatggg 120  
gaaggagata cccatcttgg cccctgctc cacctcaaag atcaatcccc gtatgaacta 180  
cccagccga acatagtctg ccatatcccg gcctcaccca cgcccgtaaa agaactctgtt 240  
cccttcgcgg aagatagggg aaagattgag gcgccgaaga gaggttgagg gcgtcgaggg 300  
cctcggaat tacctattct cggatttggg agatttatgt gttgtgcca acatcgatcat 360  
ccctcccaag ttcaaagtac caactttga taagtacaaa gggacgacat gtccaaa 417

<210> 31923  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 31923

agctttgagc caattcaaac aacaataact ttttactcga atgtctgatt gagtcccgta 60  
 acatatcgag acgctcgaaa ttgaatgttg aacttttgag ctaattcaaa cgacaataaa 120  
 atttttctcg gatgtctggt tgagtcccg agcatatcga gacgctcgaa attgaatggt 180  
 gaacctctta gctaattcaa acgacaataa cttttttcac ggatgtctga tagagtcccg 240  
 taacatatcg agacgctcga aattgaatgt tgaagcttca gccaatcaa acgacaataa 300  
 cttttttctc agatgtctga ttgagtcccg taacatatcg agacgctcga aattgaatgt 360  
 tgaagctctg a 371

<210> 31924  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31924

taaacattca atttcgagcg tctcgatata ttacaggact caatcaaaca tccgagaaaa 60  
 aagttactgt cgtttgaatc tgctcagagg ttaaaccattc aatttcgagc gtctcgatat 120  
 gttacgggac tcaatcagag atccaagtaa aaagttattg tcgtttgaat tgtcttagag 180  
 cttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatgaga catccgagta 240  
 aaaagttatt gtcgtttgaa ttggctcaga gcnttaacac ccaatttcga gcgtctcgta 300  
 tatgacggga ctnaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360  
 gcttcaacat tcaatttcga gcgtctcgat atattactgg actcaatcag acatccgaga 420  
 aaaaag 426

<210> 31925  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 31925

tagcttgtgg cacgctgggc gagcacatct ctggctgac ctcttctagg atttcccaac 60  
acgctaagcg agctatgtgc cttgcttagc ggatgtcact cgctaagcgc atatgcctcg 120  
cttagcgaga caccagcggc aagaaccttt tcttcttttg gcctgaaatt gaagtggttt 180  
caacattaat tcacaaaatg ggagtatcta ctatataaaa tcaaaactaaa catgaaaata 240  
tgtacaattc ctacaaaaag aatcataaat tgggggaaag cggctaattt catgaactat 300  
tcaatacaaa agttagtcgt aaataacgac taacagtata caaagcacac tcatagttaa 360  
gtcattgaag gggatcttta cataaagatt g 391

<210> 31926  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31926

ntagattcct ttaaagtttt taaggttgaa gttgagaaac aatgtggaaa acaaattaag 60  
atcgtgagat cagatagagg tgggagtact atggtagata cacagaagat ggacaagcac 120  
caggttcatt tgcgaaattt cttcaagaac atgagattgt tgccaatac actatgcctg 180  
attctccgga tcaaaatggt gtggcagaac gaagaaatcg aaccttatta gacatggtga 240  
gaagcatgag gagtaatgta aagctttctc ccctttgtgg attgatcgct taagacggat 300  
gcgtatatat taaactgagt tccaaccaag gctgtctcac agacaccttt tgagttattc 360  
aacggttgga aaccatgttt gcgacatata cgcgtatacg gatgcccgtc tg 412

<210> 31927  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31927

agcttgaatc ccttcttttt ggcagcatcc taaaccagta ggcgttgatt cactttatcg 60  
acaactattt ttatatcagt ggcccttgag atatgtagac aaagagggtta ggcaatgctt 120  
gatctttcaa gtacatttgt ttatgcaatt taccaaggga tgagcggctt tcttgagaga 180  
gattgagatc aactggatgc actggtaaga gtttggtgat tagcatccac acagatgcac 240

cttcttctaa aactcgctct ttgnngggttc cacattttcc aagagtcocct ttgtgttttt 300  
caaaaaaatc cctaaagatg ttgctttgtg agatcttttc atccttgaac ttttgaagac 360  
tgtgtcatgc ttctgtgggg gataccttga t 391

<210> 31928  
<211> 392  
<212> DNA  
<213> Glycine max  
<400> 31928

tgcacaacat ccaagaaatt caacatccaa acatcatgaa ctatccaaaa ccaagaaaac 60  
agggcagagg cagaaaactc tgcccaaaac acattccaat accacaactt tccttactca 120  
aacaccagat aacatcctct tcgtttcggt tcattaactg cttgatcgat tcgagaattt 180  
ttaagccttg taatcgatta cacacccttg gtaatcgatt gccagaggtc atattccaaa 240  
tattactcaa gatccatagc tggccagtca cccacacgcc tccttgcttg gggctcttgg 300  
ttttatatcg gttgactgcc aagagctcgc ctatttacgc acgtcacagg ttctcactga 360  
cggactatgc ccggcgttgc gtcgggattg ac 392

<210> 31929  
<211> 382  
<212> DNA  
<213> Glycine max  
<400> 31929

tactaactac caagtatcag aacgtcatca attgacattt ctatatatat atatatatat 60  
atatatatat atatatatat atatatatat atatatatat ataagcatgc cacacctttg 120  
agagatacta ttcataaaaa tcagcgtgta ggtattcacg tttctcagta agagattact 180  
gagggttgaa atttcattaa gagtaggtat aatttgctag acatacactc tagaaagagc 240  
atttctaaaa agataaaaaa cctctaaaac aacactcgca gctctcattg catgtttttt 300  
atccttttga ataattacaa tagcgtgtga gcacataaaa gaatatcatt tatagacttg 360  
cgtctcctgc caaacatata ag 382

<210> 31930  
<211> 395  
<212> DNA

<213> Glycine max  
 <400> 31930

gtgcgaaagg cttgtcgcgtg gagctgaccc atcaattgta ctaactcttt cagactggcg 60  
 attgctaggg tcttaatctt gacttgatag aacctctttt taagccaagg cgtctaactc 120  
 gatcccatgt ttactaaag tggaataaaa accaatgtga gtcaagactc tgaaacctat 180  
 cacaggtgaa atggatgaat gcatgaagaa atgcgtatgg cacagatgca ttttacggat 240  
 acgaaagccc gggaaattat gtgcttctac atacaacatt cgcgcggata gcgcctgatg 300  
 catgcatata agaaggtgac atggaccttc catcttctcg tgacaatgtg acgtgatcaa 360  
 gacgcaaccc gtgcgtgatg acatgatgca gatgc 395

<210> 31931  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 31931

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 tggctctatt gctgtgtcca tcaactcattt tcaactaaaa attctgtaga agtgtgcagc 120  
 ttatgctggt ctttgctgat gtatttggtt agacaaaaag cctaagcatc cttttgcccg 180  
 agatttgctt tgtaatagga atgtcaaagtg tgcgcatctta ggctctcttt tgtacattac 240  
 ttataactgt gttaagagtg tttccttggt tccacgacat ctttatectt tttagttttt 300  
 ccccatatct ctccattttt ctctttctct atttaatcta atcatgcaag gaggctaata 360  
 attgacatgt aatcaagttt c 381

<210> 31932  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31932

gaactataga gaactctagc ttacaacattc aataatgagc gtctcgttgt agcacaggta 60  
 ttcgatctta catncgagac ccaagtatct cggagtgagg attgcacaat cgatgcccat 120  
 tcattatcct gcgatttaag tttgtacacg agtacacata gggcaaaaac aggtataaag 180

ttattgatat gagcagtac agagagaccc tctccctct tgagggcgaa cagacggggc 240  
atcgagcata ctctgatggc tgctgacgac gtttctgaca tatgtgatgg tgc 293

<210> 31933  
<211> 122  
<212> DNA  
<213> Glycine max

<400> 31933

cgtattctag cttggttctg gaataatcat caaaaaatg caaaattaaa caacacaggt 60  
actcgcgaa gaacgttctt ccgcaggaat ggaaagctct cccgtggaag aacctttctt 120  
cc 122

<210> 31934  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31934

ctaaacacca ttttctatt acttcggtaa cattataaag ccaaagaacg cggaaattag 60  
cataaagcct ctaataaaac aactctcatc atctctaagt ttgacttctt acaatactct 120  
agtacatatc catattaagt tgggttatat taatagttac ctccagtcgt aaaaataaag 180  
tcttatgaaa catatacaaa tactcggtgt ataatcgata tggatcatatt tcaatctatg 240  
tgaagagtgc aagaagattg taacaccacc ccaccacttg ctctctaat gtgattgatg 300  
ggggaccctc ccagctagct atcttagtag gatcaagcta tactcgaaga tataacgggt 360  
acaccatacg tgaaagcctc gtacttgata aaccn 395

<210> 31935  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 31935

tagcttgtcc tgtacatcaa tgtatatatt ctcccaaata gtcttgcaac aaaaaagtt 60  
gagtattttc ttacatatta tgtgcctata ttgttgcgct caactgggct atggaaaaaa 120

taagttgctt gatgagatat actcgtagag atggatgaaa attatatcaa ctattaatta 180  
aaatttaaat atatttctta tctttataat atagcatttt tgtgtttcta atccatgtaa 240  
agtttttttt ttgtctttgg caaattatga ttctctctct acacactctc cgacaagctg 300  
taaaattatt atctaataca tgtgaagaac attaaag 337

<210> 31936  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 31936

atgttgattt gggaaggag tacgaggaat ggcgaataat ttaagcccct caaatgctct 60  
aacagtgacg catcgatata caaactcagt tatcagaaat tcattatgct ggggccatga 120  
atccattatc caactgactc gaatgtgata gcacccgctt ctgcttagac tcaggcgata 180  
acaaatgaac ggtcttcacc ccgaattagg ttatcagtca acacctcctt gaggctgagt 240  
tactccacac attttaactc cctcctaac gctgaagcct taactttact ggtagcaaca 300  
gagataaatt tcactctcaa taccatctta tgaaaaatgc actgagagct actactcaca 360  
acaccacccc ccacaatatc actcacctag cccctaa 397

<210> 31937  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31937

agcttgaaga aaaaaggcca gtaagtaatg tataaattaa catagtgtga aagatgagaa 60  
aaattaatct taaccattaa ttaatcaacc cctatattat aaatgactac cattatttgg 120  
tacgaattga gacgaaaaag aattacaaat catgtcaa at catttattta atctatacta 180  
tcatttatgt ctatttctaa attgaattat caataataa ttntattcta ttagtacatg 240  
tgccatttat tctaaaatta aaattaataa ataatttgta acactaaatt tatcatagta 300  
aataatatac accaattatc aaacgtgtaa gtgttaccta agaagtcctt ttctccatcc 360  
ataagaataa agtaaaggcc tatcggacat ataaa 395

<210> 31938  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31938

tcaagaaaaa gatggcctca gcaaattcct tatttccata aggaaattct atcaacagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tctaaatatac tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240  
 gagatagatg gtctgaagag gatagaaaac gagtacacac aacctaaaag ccaacacata 300  
 ataacatctg ncctaggaat ggatgaatat ttcagagttt caaattgcaa gagtgtctaag 360  
 gaaatgtggg acactcttcg attaacacat gaaggaacta cagatgttaa aagatc 416

<210> 31939  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31939

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 atacactact ceggtcttac aaccttggcg acaaagatgg tttggctgac ggagggtgat 120  
 gatagcaata catatatctt ggaatgggaa gagcataaca gctacataga attggaccat 180  
 agcaggecct gaagacattc cagagtaccc acacgcttca atgactgtgt ttgacgttgt 240  
 taagcaagta ctaatatcta ctttgttatg ccattatct attccactat ccctgncttt 300  
 acctagttat tataataaaa gagaatacat gcagtcttga ctctgttagc actgtgagcc 360  
 ataagc 366

<210> 31940  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31940

taagaagata cgagtgcaaa ggtaagcaaa actccagcca catattatta agatgaaaaa 60  
 ataatgtatt ntttaatagt gcacaccagt tcaagaaatt gtacttgaaa attcagaaat 120  
 tcctgttgaa acatttgac caaaatactg caaataccaa tttcctttac ggattgcctg 180  
 cggtcctcct caagcctttg attcattgaa tgactttttt tcacttcatt tggcaatacg 240  
 agaaagactg ctacttatgc atgttgattt gattanatcc tctacatttc aatactggct 300  
 ggtacaatac atttaaccgg tccttgaatt tatattttat aaccaa 346

<210> 31941  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31941

agcttgcatt cactaaattg ttgcaagcat ttggaaaatt tggcaagcaa ttcctaaatg 60  
 ggaatattca aaatcagaaa gcataaggaa aatttcacat gcaatcccac aatctaggaa 120  
 acaaccatat aattatttaa gggaaaacct tccatagaca acaattcaga accttaaadc 180  
 tacacactaa ataaaaaggt aaagaaaaaa caaacaaga aaacactgag gtacatcatg 240  
 caagtctega taatttaaag actcagctct gaattgagac gactgacact gatcgagatt 300  
 ccctcctana aactcattag cacactggag tgtgaccaca ttagaagggtg acaggctgat 360  
 ctagacaccg taacaaattn tttccatcat 390

<210> 31942  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 31942

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 gccgaaggag tggtgaaaaa ttactcaatg cttttttgta ctaaattgat atacatttct 120  
 tataaaatgt aggtttgttc tatatgcctc tccaatgaaa aggacttggg ctttggttgt 180  
 ggacacatgg tgagttcttc caaacgccat tccttttttt tttttttttc atattgccat 240  
 acacatgata actatgaagt tattcttacg caaactgcag agactgtgga tcaagttatc 300

gaagtgtcct atatgccgtg aacagatcac aaaccatatt aagctatttc ctgngtgatt 360  
atgggccagt ttgtttaaac ttatttgttt aaaaaagttc ttattttaat aaaataa 417

<210> 31943  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 31943

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gggtcgggga caaaacgtac gcccagtgcc tgaaaaattc gcatgggcat gcgcaagctc 120  
tcttagcacg acgtttgatt ttagatgcca aacaaacaac ctgccactaa agatgacatg 180  
tcttcttctt ctcattcccg caaaacgacg ccgttcattc atgggaccat cctactaatg 240  
tacatgcctt tcagaatttt aaattggctt aattataaca tcatcagaat ttattattta 300  
agttttattt tggtaaattt tatcacttta aatttataat tctataaatt ttattactta 360  
aatttttttc acaaatttta ttattttaat 390

<210> 31944  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31944

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gcatgaataa aatgtaggtc tcttttaagc ccaatataag cttagccac aaaaagtatg 120  
tgcaaattgg gctttccatg atcttagagg taataactct cacatatccc aatattccat 180  
gatcactgcc aaaattcgga aaaaagtgca tagttaattt cagctacctt tgctaaatac 240  
aaaatcaatg atatccttag gtttttggac taatcatatg aaaaccaatg acaatacttg 300  
gtagaggcga agaaggcaaa gatcgcgtc cagactgtaa gtttgtgatg aaacctaata 360  
ggagacagan attgngtttc gtttcaaacc taaggttttg gatttaggac aaaaga 416

<210> 31945  
<211> 383  
<212> DNA  
<213> Glycine max

[illegible]

<210>	31946
<211>	427
<212>	DNA
<213>	Glycine max

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atccaatect	tgtgttcgga	ctctcagcca	cttatgatag	ccgtcgatga	tcccattact	120
gcttccccta	agctctctgt	cctttcttca	cgccgcaccc	catgccttgc	gaactccttg	180
gagtaccctc	gcgttgttgt	cactgaaacc	ccgtgcgatg	aaaggcgtga	tgcttttcgtc	240
taatggcgct	cctctcatgg	ggtagccaag	ctgtcttatg	gcagaacggg	attataatca	300
tacaaccctc	tgttcccatc	aagggaacat	ttggacatcc	ttcgcatgaa	gatagaatct	360
tgattcttcc	tttcttctag	cgagggaacc	aattaacaga	cgccccccca	tgctagccaa	420
gagttgg						427

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<223>      unsure at all n locations
<400>      31947
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13321

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 agtagatagc atcattctaa ggtaaaatag tctacctgct gaaggcgga cccatatgag 240  
 tcttcctatt gtattccctt attttcttgg atgctagnac ttcccgcgga cgaataaaca 300  
 aatcttgaga tatattgatg atatgtaaga tcccgcccat aagaatatat ttcgtagaa 360  
 tgcacccacg ctgtgaacat ggattatttg a 391

<210> 31948  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 31948

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 taaaagaagt agctatccta taatggagaa taaaattgct aaatctagat tttaacgctt 120  
 tgggttaaag tatgatgtca cattcataga gtgaatgggt taaccgccac ctatagacat 180  
 gtggatcttt ggtattgaaa gactttccga ttagtgagct cattcaaattc tgtatgatga 240  
 agttctatgg aggactattg gatattca 268

<210> 31949  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 31949

agcttaacta tttatggatt ttcccacca tccattctat agtccatttc accattagcc 60  
 tccaccaaca acctccaaca ctaggttgaa gaccttctta gcaccccaa cttacgtgcc 120  
 tactcacatg caacaccatt cattaatgca tgtatgctat gatcattcaa ataaaaatca 180  
 ttgtatcaca ctattaacat attcattcac catcatcaat ataattcatt tcatcaacag 240  
 ctcaatccat tatatattaa ttcaattcat catacatatc gccattcaac atacaattta 300  
 gcattcatat gttgttcaat tccacatcaa ttcattcattc atatcattct caccatccat 360  
 gaactctcaa atagttcatc tacacctcat ga 392

<210> 31950  
 <211> 376

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31950  
  
 tcttatncaa ggctcatctt ggtggtgaag ctccttcttc tatggcttat tccttaatgg 60  
 atggcgctc ctctcacctc ctttccttg tttccgctg catctccatg gtggaaaacc 120  
 accattaaag gacccattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180  
 gcttccatca actactacct gcgctaagt cacttccaat gactttaaaa caaatgatg 240  
 ttggagtta gcacatcctt tnttgtaac ccccttgaa agctccgta cagaatgaat 300  
 ctggggctta gcgtaggatg gcacacttag cgcagctatc ataaatttc acagagagga 360  
 agtggcgctt agcgca 376

<210> 31951  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31951  
  
 tagctttact cttatttatg tcctcgaaaa gccgcttaaa tcaccgaaca aagcatgtcc 60  
 tttttcaaag ccaacgattt tttttattga catcactaca attaggtaat agtaataaag 120  
 acttgatctc tcactccaca aaattgtcac aaatttgaca tatataaggc acattcctag 180  
 caaaattcaa aaaatagcgc tgttttacag aaatagcact ctagctaaag aaaggaattg 240  
 aaacttgaat atcaggtttt gattatcttt ttgacccccg atcgctcatc atagaaagcc 300  
 aaaatgtatt tatgttgta ttcattttcc aaaatgaaaa aaatctatta atctagatgt 360  
 agttattaat tttccatact atg 383

<210> 31952  
 <211> 204  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31952  
  
 ttgcaaatcg aattacactt ggacccttat agacttatca attaatatga gagctatggt 60  
 gcgcccgttg gtttataaga ttaactatat tggcgatggc tacgctgaat gatatcacgc 120

tggacttgta atgatggtgt atgctataac ggtaagatat gccaatattg catgattact 180  
gccagatgtg agactaacgt gcat 204

<210> 31953  
<211> 376  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31953

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tctgatcatc atgctttgat caatgccaaa aaaaaaaaaa caagggcaaa tgaagagggt 120  
gagaatgagg gataagccca tgctgtgact gccattccta tacagccaag tttcccacca 180  
accaacaat gtcattactc agccaataac aaaccttctc cttaccacc acccagatat 240  
ccacaacggc cattcctaaa tcaaccacaa agtcgtctac cgcactccaa tgacgaacac 300  
canctttaga acaaaccaa acaccaacca agaatgaat tatgcagcaa aatagcctgt 360  
agaattcacc ccaatt 376

<210> 31954  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31954

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ccaatcttta atggagaggg ttaccactac tggaaaacc gaatgcaaat ttttattgag 120  
gcaatacact taaatatgtg gcaagtcata aaaatagggc cttatatacc caccacagtt 180  
gaaagaacca caatatatgg aagcacaaca agtggagca caacaataga aaacctaca 240  
gatagatggt ctgaagagga taaaagacga gccactataa tttaaaagcc aaacataat 300  
tacatttgac ctgngaagtg atgaatattt caaggtttca aattataaga gtgctaagga 360  
aacgtgggac actctacatg taacacatga aggcaaca gatg 404

<210> 31955  
<211> 269  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31955

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tgaatcgcat gtccacttgt aactccaagg tattaacct ttcagcaaca aaggtttgaa 120  
gaccatcaaa cctgtccaaa atcttttgaa caaaaaagga atcttctcca ccatgttagt 180  
gtcctttcttc atcgatgggt tgagcatcct ttttcacca agagccatca tgctctttac 240  
gggtacaaa ggatgcaatt actgcagta 269

<210> 31956

<211> 319

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31956

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gtaattccga tagaataaat ggccaatcat catttttagct tctacagtat gcaaattggt 120  
gatgatttaa ttcttaataa aaagaacact ctgatttata ttctccccgt ataaacacca 180  
taaccattac atcttatcta taagccaatg ataagattcc ttcttaaacc tttatcactt 240  
agtgttcaat tgatttttat gaaaccocat tcctaatac cccnttatga atattatgat 300  
gtaatgacca atgatccca 319

<210> 31957

<211> 356

<212> DNA

<213> Glycine max

<400> 31957

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taactcaaaa atatcattct cttctcccaa acatgactca tgtgtgcata gattcattgg 120  
atagatacac gtgtgctaca gctccttgctc tttgcaattt cgaaatctac ttcaaggtag 180  
gggggttctt ttctttctca tgtttattgc gtgacgatgg agctcacacc catgttgagg 240  
gtcataaata attgatttac ggttttagaa aacgccccgc taagtctca ctgtataaat 300

gatgatataa gttgcttgat atttgtgtag cgaatgtctc atgaatctcc tattga 356

<210> 31958  
<211> 234  
<212> DNA  
<213> Glycine max

<400> 31958

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attcactacc taaggtttgt agtacatgat agctcccacc ctattacgca tcgaggcgga 120  
gtatcacgag caggaaactt gaatggctgc cattgccaat gctgaccgta ttctgcgctt 180  
cactatacgt gtgcacacat tattgcatat tgcggctatg cgatcatgaa ctac 234

<210> 31959  
<211> 318  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31959

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tgacaagttg gaagaagata tagtgacat ggaatccttg acaactctaa ttgctgacaa 120  
tactgatgtg aaacaagtgc ccttttcaat agtaagctcc aaaagccttg gatatatatc 180  
cctttgtgga tttgaaggat tatctcgtaa cgttattcct tctatcattc ggtcttggaat 240  
gtcacaacaa tgaatccgtt atccccattg gtcattccct gcacattatn atnttttagat 300  
tccatggata tacataat 318

<210> 31960  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 31960

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cactggtaat cgattaccaa aacattgtaa tcgattacag ccttttgaaa ataattggaa 120  
cgttgtaaat tcagtttgaa aactttttca aactcatttt gctactagta atcgattaca 180  
ccaatatggc aattgattac cacagagtaa aaactttttg gtaaagggtt tgcacaaaac 240

tcattgtgcta ttcaaagatt tgaaaaaact ttttaatccc atcttgattg atcttttctt 300  
cattgttgaa tcttgagtct tgaatctaga tcttgattct tgagatcttg aatcttgaat 360  
c 361

<210> 31961  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31961

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taccacaata aggaatttaa cattgaaagc atcagaacta tgaatatgac tcgattttgc 120  
tagcaataag ctagtgtgat taatgagtgg gtaaagatc tttactcata atagctcaga 180  
caaaatcgtc aacaacaaag tccactgatt ggcgcttctg gtaagcttgt aactcgtaat 240  
ttttagttga aattgtcaat tctacacatg caatccacat ctctcaacac actcttggat 300  
gagccttnca aggattgtgt tgccttatct aacttttctt ncttttccag tgataaggta 360  
aagctaaaaa attgagtctc ccaatgtttg atataagttc tgtaagacca tctttaat 418

<210> 31962  
<211> 385  
<212> DNA  
<213> Glycine max  
  
<400> 31962

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cgtcgaagaa cggttgaaac ctttgcgaaa ttcttcacgg aaaacgttat ggaaacgttt 120  
ctgaagcgcc tcggcttaga ttttcttcac ggaaacaatt tttccaagct aattcgaaag 180  
agagagaagt gcctaagggg ctgaaccatt ttcttcttca cttcctcccc tatttatagc 240  
acaatagggg agatgcttgc cgcccagctt gccagggccg ccacgttgct cctccagata 300  
caacagtctt ctggaggaat cttctggagg gcccaagtgg gcttggttgc tatttgcacc 360  
cccatttcta ctaagtacac ccccc 385

<210> 31963

<211> 415  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31963

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 cctttccttg ttttgaagct cactacaagc ctcaagtga aaaccatgat atcaccatat 120  
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gggtttttgtt 180  
 tcattggata acttgttctg ttggctatac ttcattgatgt attttgggcc atacttgatg 240  
 tacattgtat attgggttaa tggtggacat gctactgcaa cggtgtttct ccaggatata 300  
 gagtaaaaaa aatgaaaaaa aaagcaataa agttgagtga ataagatctt aaatggcaca 360  
 agaatgatga gactcttggc tctactctct atgcttaaat tttatcttct tttta 415

<210> 31964  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 31964

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 ataggctagc taactcaa atcacacattc ttgggacact aacttgctta tagttgaggg 120  
 tgcattgttc ctatggccat agtggcatat tctaccttag gaaaatgtaa agtgcacttg 180  
 ttgatcatta gcctaaatct cttgatgaaa tctaatacaa gctcatcaac caactacttg 240  
 agattcatta tatctactat tgcaaccttt gactgttgct atacaaaaga tcatggaaca 300  
 cttttncata tttgctta atttaaataa atttggtgga aggaagaat accaagtga 360  
 attgtgttcc tgtaaggat aataagaac 389

<210> 31965  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
  
 <400> 31965

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tacctaggta cgtttcgtct aagctctatt gttctattga atacctaggt ctgtttgggg 120  
aactcgtggt taaccaagg acctttgttt gtttctgcta caaggattgg ggaactcttg 180  
gtgacctgag gtacgtttcg tgctcgtggtc actgggtgctt acaggggtctc attttgattg 240  
aggaaagtcg tgctcacttt gcagttcttt gaatgctccc tgtctgttgt aaaactgggt 300  
agcgtagtgt agtgtagtgt agcattgttc atttggattg aacaattctg gtcttttttt 360  
tatgtttttc cctcctatgc attgatgtca tgtatccatt gaaagaggca atact 415

<210> 31966  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 31966

tagcttgctg ctggagctgt cccattaact gtcctaactt ttttagactg gtgatcccta 60  
tgctcttgac cttgactaga tagaacctct tttaaacgaa ggcatttgac ttgatctcat 120  
ggtttactaa agtgaaacaa aatctcgcgc gaatcaaac tctgacatct attatgggtg 180  
caatggatga atgcatgaac aaatgcatat aacacagatg caatttatga atactggagc 240  
ccgggaaatt gtc 253

<210> 31967  
<211> 184  
<212> DNA  
<213> Glycine max

<400> 31967

gtttgttcgt agcggacgta cggatgactt tcggatcaag ttgatctgta aaaagcttac 60  
ggatcaactt gatccggaag gatgttacag atcaagttga tccgtaagat acggatttga 120  
tccgtaacat ttttccggat caagttgatc cgcaagctcc ggatccactt gatccgttag 180  
tgta 184

<210> 31968  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 31968

[illegible]

tctttgagaa	gattcctaaa	gaagttatag	cttatcttca	tacaccccct	ataatagcta	60
agctcacccc	catgccaaaa	tacatgaaaa	tataaaaaaa	gtccctattt	catagactac	120
tcaaaacgcc	ctgaaataca	aggctaatac	cctatactac	tataatggcc	aaaataacaag	180
gccacaaga	aggaaaaaacc	aattataaca	tttacaaaga	agaatggatc	caaccttgac	240
ccatgggctc	aaaaatctac	cttaagggtt	ccacaccctt	agggcctctt	taatagctnt	300
agagcaagcc	tcttggagtc	ttctatccaa	tacccttggg	gggtatgatc	tcatcatccc	360
ctccaccctc	gaaggatttg	accttaaate	tgaggttcct	atactctac		409

agctttgatg	atatggtctt	caccaatgaa	aggatcaaag	tgggactaat	aagaggaaaa	60
tctgatcatc	atgctttgat	aatgccaaa	acaactaggg	caaacgaaga	gggtgagaat	120
gagggagaag	cccatgctgt	gactgccatt	cctatatgac	caagtttccc	accaacccaa	180
caatgtcatt	actcagccaa	taacaaccca	tctccttacc	caccacccaa	ttatgcacaa	240
aggccatccc	taaatcaaac	cacaaaacgc	atccccacac	aaccaagcta	aaccccactt	300

ttagcacgaa ccgaagcacc aacccaaaagg gaattttgca gcacaaaacc ttaggggtctg 360  
ctcacatatc tactcgataa ttca 384

<210> 31971  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 31971

tcaatggagc tacatcggtta ttgtagggca cctagactag tttttgtact agaggtagtt 60  
ttgtaatttc acatgcatta agtgaatatt tgatgtgtgt gttcgaaaat aaatttaatt 120  
gaattgggag aagcccaatc caattaaatt ttagaggggg aggtgagcat ttgcttgcta 180  
caccctattg ccacatcata ttgtcacact ttgtgcatgt ccttcatgct ttacatgcct 240  
catgaccctt aagtacactt actggagaat ctgcacttg atcttggaca gtgggctgaa 300  
ccatagctaa aattctctaa tcataattaa tgaaaatgtg gctccacata ttcacacca 360  
aattcaagtg aaatctgaat agaaattcaa atctacctcc cattttgtga gacacttacg 420

<210> 31972  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 31972

agcttgttgt ccgtgtacac ggttccggtta atggtggcat tgacggcacc ggtgggtcatg 60  
ctcacttggc tgccaccata agtggtgaca ttaagttgca gcctttttaga gtcacaccg 120  
gcttgggtct gaacggggtt ggtgagagtg tcgaagttgg agattgagag gaaggaagaa 180  
agagtgtgaa attgtaaaag ttcaaccttt tgccctgtcgt tgagttagtt gaggaatcct 240  
gcttttagct ttgagaaggc agaatcaggt ggcacaaaat ggtcatcccc cagaacctga 300  
cgtgaggagt tgagagttga gttggttgat caactgggtc gtcttcagaa gccgaatcag 360  
aacagaaaat ctct 374

<210> 31973  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 31973

tatgttttta aaaaaaaac ctatttactt aaataggtca aaccacacgc cttagaagaaa 60  
 acatattaag cttacgggtc gcctcactta gcaataatat tttataataa aaatattatt 120  
 attaatataa tatctaataa aattattttt ttaaacttac aaaattattt tagtagttca 180  
 acaatttgaa tcattttaat taatgggttaa catatgttaa ttcataataag catagatgag 240  
 tatcaggaat atgaac 256

<210> 31974  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 31974

agcttgtaaa agagttgatc gtgttgagat aatccaattt tgaccagaca gaacctttta 60  
 aggataggtg tcttgaaatt gcacttttta ttcgggtataa gagttgagca actactatgc 120  
 cacgtgacta aggttgtaaa tacggggccgg tccgggtcgc ttttggcccg ctataaacgg 180  
 gccagtttag cccgtcctgc taagcaaaac agcctacctt tcttagtctg gccatttca 240  
 agttggccca cggggccacc atcaattctc tatttatttt ttcagattat gtattggatt 300  
 ttatcgctgt tggtaatatc aactttgaat ctaactcttg tctttttata attttttata 360  
 actaaaaata ataata 376

<210> 31975  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 31975

tgagaatgat gaatcaaatt atcattattt tgtaattttt tttgtatggc gatgaatcaa 60  
 actataaatt cttaaaggca catacttcac tccttttaat caattcaggt aaaacaagga 120  
 tagtttgatt aattatacaa aaaaaaatac aatatgatac acagttacat atcatgattt 180  
 ccacgccgtt ggccaactat tctgcttggt tattcataaa aagtataata tcgaaatgat 240  
 taaggggttt cttagactac ctcatacaaa accaatacga tcttgaaacc tatgattctc 300  
 acaacaata gataaacaga taataatgta tatctttctc catacgaaga tttctctcca 360

atgcatcttg attctcttga aagaggagag a

391

<210> 31976  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 31976

agcttggttac agaacttagg aaaaatcaag aacaagcttg ttcgcacatc gttcgcggtg 60  
atgatattca ctgcacaagg tttgaagtag aggagacctt caatcctata acgcaacgtg 120  
gcggacaaaa atgggcagtt aacttgaatg gccattactg tcaatgcgga aggtattctg 180  
cgcttcacta tccatgttca cacattattg cagcttgtgg ttacgtgagc atgaactact 240  
accaatatat agatgttggt tacaccaatg agcacatctt accgcatact ccgccagtgg 300  
tggcctcttg ggaatgaagc ggcaattcct ccttctgatg aggcattggac actaatccct 360  
gaccaacta caattcgtgc gaaaggtc 388

<210> 31977  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 31977

tagctntatt ccttacaacc actaccatcc aaatgggtgg aaataagaaa tgttgggctt 60  
acgtcctttc cacaattcat aagaattcct tttaagattg gcctaataata aattttattt 120  
tgtaaataat agacaatggt tattgggttca gcccataagt gtttaagggt tgagtgatca 180  
ctaagcatgg tcttagccat ttctgaaga aatatacttt tcatttacct ctaaacadat 240  
tctaatttgg tgttcttgga gtggaaaatt gtggtcatac cattctcttc acgaatattt 300  
caaaatatca ttttcaaatt ctcccccatg attacttcta attgaagaga tacatgataa 360  
tgactattga attactccaa aacaaataaa actaggaaat tntgcaatac aggatta 417

<210> 31978  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 31978

agcttggttac agaacttagg aaaaatcaag aacaagcttg ttcgcacatc gttcgcgtgt 60  
atgatattca ctgcacaagg tttgaagtag aggagacctt caatcctata acgcaacgtg 120  
gcggacaaaa atgggcagtt aacttgaatg gccattactg tcaatgcgga aggtattctg 180  
cgcttcacta tccatgttca cacattattg cagcttggtg ttacgtgagc atgaactact 240  
accaatatat agatgttggt tacaccaatg agcacatatt aacgcatact ccgccagtg 300  
tggcctcttg ggaatgaagc ggcaattcct ccttctgatg aggcattggac actaatccct 360  
gacccaacta caattcgtgc g 381

<210> 31979

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31979

tagctttatt ccttacaacc actaccatcc aaatgggtgg aaataagaaa tgttgggctt 60  
acgtcctttc cacaattcat aagaattcct tttagattg gcctaataata aattttat 120  
tgtaaataat agacaatgtt tattgggttca gcccataagt gtttaagggg tgagtgatca 180  
ctaagcatgg tcctagccat ttctgaaga aatatacttt tcatttacct ctaaaccatat 240  
tctaatttgg tgttcttggg gtggaaaatt gtggcaatac cattctcttc acaaataatt 300  
canaatatca ttttcaaatt ctcccccatg attacttcta attgaagaga tacatgataa 360  
tgactattga attactcaa aacaaataaa actaggaaat tttgcaatac a 411

<210> 31980

<211> 204

<212> DNA

<213> Glycine max

<400> 31980

agcttttata taacgctcag cagcagtcaa ctattgatgc tcttcgtgac ttgggtgatg 60  
aacttccatg acttccccac tgactgctgg tttcttgaca tacgtactcc gtgcaatata 120  
ttcatactct ctatgcactg attgccacga gaactgcctt tacactatgg aattttccgg 180  
gtgaagtctg gcaattcact atgc 204

<210> 31981  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 31981

tagcttgagt aaatattcag atcctgtccg accttcttta acatctctat ctttctcttc 60  
 cttttctatg gttgtgtttt ttatctttca acttatctat ctcttttcta ttctatgccc 120  
 tctcctctct ctggtcttct tgctggagag gcacgatggc aggagataat ccacacacct 180  
 caagaaatag gtggaacctat ggaaatgttg taactgttgc tacaacttaa cgagagagat 240  
 ataatctaata tacatgcaag tcttttttat cttgcgccgc ccaccaacgt cccatcgtgg 300  
 agaggaaatg atgtatgtca atctactact tgagtgcac atcagtcacat cactacgcat 360  
 tttccagact aaactatggt tttttaacat ataa 394

<210> 31982  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 31982

agcttctatc caaatggact taccttgaat taattccttt gatagcccct ttgagcctat 60  
 gttccctttt ctttgttttg aagctcatta caagccttaa gtgaaaaacc atgatatcac 120  
 cttaccctta aggaattttg gagctttgga attgttttgg gaataagttg ggaataagtg 180  
 tgggggggta tgtttcattg gaagatataa tttttggcca tgcttaatgt tttattttgg 240  
 ccatgcttga tgtatctgta tattgcctag ttcttcttta ttctgccatt catactgttc 300  
 aaaaaaaaaa aaaaaagaag aagaaaagaa gtgaagtga ataaatgagg tcttgttatg 360  
 aggacttgat ttgggagcct cga 383

<210> 31983  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 31983

tttcaacaag tggtgtccat actatttgaa tacaagctca agtttcaagg agaaaagtcc 60

aagggtgtga gttgtatcat ggcccaaatg gaggaggact aaatgacacc actttgtctc 120  
aatttttagag tgtttaattt gtttaaataa tggcccaatc cttgtaaagt tggatgacca 180  
aaaatatgtt ttgggttaat caactaaaag ggcttttagt ttggtttagt caagttgtaa 240  
taagggtccca attggcaacc taggcatcaa cctttccgag accaaatggg gctggcttga 300  
tggttggttg gggtgacttt tggttgccac aatttcagtt acactcagcc attaagttct 360  
ttaattccc taggttagtg gcattaagtt cttttaattc cagggttagtg gatcattact 420

<210> 31984  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 31984

agcttttagga tcaaactttt ttttctctct ttttctctca attgttcttc attcttcttc 60  
cttttttcac atttgttctt cttttttctt gcacaaattt tgtggctttt ccactgggtga 120  
tgatcatgga aggctaaata ctcaatcaat ccaagtaagg ctaaatcgga gttatggctt 180  
agtattcata atatgtgtga atattcatct tttcttcaat cctattttcg gttttcatga 240  
ttatgaatat gcttgggatt gaaacaaaat taggttagcg attcctttcc tatttcaaac 300  
ttaataacag attgtttgga tgatattcca acctaaactg tgatctcaat gaatctacgg 360  
attaattcga ttgaactaac tcaaatga 388

<210> 31985  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 31985

taggaaaaga taagttgcat attgtaagat actggacatg tcatggcgtg agatcatatc 60  
cttcgtccat ggaaaaagag agaataaaaa aagagtttga gttggtagcc atatttcaca 120  
gctgggtgtaa accttttagt aaaagacaac acaaaaatag aaagaagaaa aaaaatatta 180  
ccttattact ttgacacttt tttactttat tctcaaaact tagcaaaagc tttcactcac 240  
atcacaatcc tattaccata gaggtcaccc tggcaatggc tcaactttca ataattcatt 300  
tccttgtcat tgatgtttct cattaaaacg agttaacaac acaagactcg agcaacatgc 360

tactttttct tcggtaaattg tgtgacatgg gcatagcata agattaattt aaagataata 420  
cccaaa 426

<210> 31986  
<211> 374  
<212> DNA  
<213> Glycine max  
  
<400> 31986

tagcttcaac attcaatttt gagcgtctcg atatataacg agactcaatc agacatccga 60  
gtaaaaagtt attgtcggtt taattggctc agagggtcaa cattaaattt cgagcgtctc 120  
gctatattac gggactcaat cagacatccg agtaaaaagt tattgtcagg tgaattggct 180  
cagagcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240  
gagtaaaaag ttattgtccg tcgcattggc tcagagggtc accttcaatt tcagcgtctc 300  
gatatgttac gagactcaat cagacatcct agtaagaagc tattgctcgt tgaatttgct 360  
cagagattca acat 374

<210> 31987  
<211> 127  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 31987

ntgagccaac actaacgacc ataactgttt actcggatat atgatggagt tccgtactat 60  
atcgacacgc tagaaattga atgtagaacc tgtgcgcaa ttccaacgac catcacgtta 120  
tacacgg 127

<210> 31988  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<400> 31988

tagcttgtgt tttctcgtgc tatgcctaatt atgtatatgt atgctgtttt gggttggtgc 60  
agggtcggat cttgcttcgg tgccagacga gcaagttttg aacgggcac c aatctgaagc 120

ggatgagtgt gagaatcaag atgaagaggc tgatgcaatg gttgaagaac cccattctgg 180  
tatttgaatt gagtgccttg aaaatcttgt gcttagagcg tgttttgttt ttattttcaa 240  
aaactatttt tagttttcaa aatgtaatta aataacgact ctacactggt gtggaggggtg 300  
gtgcaaggca gagagtatag tgtggaattg atggagagct tgaagaagat gagacaacat 360  
ctcctaacag ttttcgtttt t 381

<210> 31989  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 31989

tattaaaaat cacgtatttt tataagttgc atttcatatt aatgaacttt ttcaataata 60  
tttgtaattt taattaattt taaagattgc attagaaaaa aagtgtttta gaaaaactat 120  
tataccattt taattaatca tgactttggt gtaagatatt taatgatttt attgactact 180  
aatttttgac gaatgatttg attgagtttt tcaaccagat cttttttttt tttcgatttt 240  
gagatcttga ttcaggatta aatttaaccc tacttaaact aattcgtaat aaaaataaaa 300  
aatgagtagt tttttttttt tgttttaatt ctcttgtaga gaaaataaaa catgactatt 360  
gaattgcttt aatacagtga taagaagtgc ctcaactata aatgga 406

<210> 31990  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 31990

agcttgagct cactgttgct gccccataaa gctccacgaa atttgtcacg gccatgctct 60  
tccttgcaag ccttcttggt ttcttgttca agggctcttg cggtagctgc attttcttct 120  
cgtaaccgga cacacttttt ccggacgtct gtagcgacca atttgaattt ttctttggca 180  
agtcttgctt ttcttagttt tgtttttaga gctcggactt cttcctcttc ttccggagct 240  
tcgaagcttt ctctgtcgat aatcttttagc ttgagagaca atctaccctc gtgtacaaac 300  
tttcagccat tcatgataac caccgatgat gccattacga atgcccctaa gttctttatc 360  
tttccttaac gggctttc 378

<210> 31991  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 31991

ttctaccttg tgcttgaggg ctacacattg ctcgatagag tgccccgtaa caccaccatg 60  
 atagaggcaa gttgcattgg gattgttcca tcggggaaaa gaaggttggg agaccttcct 120  
 cgggatcacc acaaccattt ggttggtgag aaaagatggg agaaggtcag cataaggcat 180  
 cggtatcggg gtgaacttcg taggttttct ttccgagaag ttcttccttg ggtttgtatt 240  
 tgtgttgggg ttgggatttc tagttggcga cgctgtgcag gaacggattt tttggggagg 300  
 cctttgtggg tgagtgggca ttctttgttg gatgggtgcc ggactggaag gagatccgac 360  
 attggctgag tagttgtact gggccgctgg atattggtaa atgggg 406

<210> 31992  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 31992

tcgacctgtt gcttgttcat ttggagaaca tgcttcttgg aggacaacaa cgagggatag 60  
 actgagagag gcgggatcac gaaattgaac gaatataaga ggtatataag tggaactttg 120  
 aagtatgtct cacactactg tcattcatca gagttacaac aagtgtctacg aatgcttcta 180  
 ttatagagta cgcaggcttg ctgagaagct atcttgagat aacttccttg agaagcgttt 240  
 ttgagaaaac ttcttg 257

<210> 31993  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 31993

gtgttgttca tactatttga ataccggttc ttgtcttttc gacaaatgtc caacgttgtg 60  
 acctgcatca tggcccaaatt ggaggaggac taaatgacac cactttgtct caattttaga 120  
 gcgtttaatt tgcttaaata atggcccaac ccttgcaaag ttggatgacc aaaaatatgt 180

tatgggctaa tcaactcaaa gggcttttagt ccggttttact tcaagttgtc ataacgtccc 240  
aattggcaac ctatgcatca accttttccc caccaaattg tggctgcttg atggatgttg 300  
ggggtgactt t 311

<210> 31994  
<211> 270  
<212> DNA  
<213> Glycine max

<400> 31994

agcttaatga tgtatgtcat accctaata tttttctttt tacagccagt atcatgaatt 60  
gaaaatgtat tttgtggaat gcaccagatt gataaaagct ccaccaaatt gcatagagcg 120  
tatttagaat attttttatt tctatttatc acatttagga aagaaaatac aatatgctcc 180  
tcatcaagga gttacttaca acctacatta ttttaagatc aatctgactt gacttaacct 240  
attcagtga gaattcatat tctattaata 270

<210> 31995  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 31995

tgactttaaa gaaaggagt gaagcactat tagaaatata agtttctacg acacctattc 60  
tacgatgggt ctgagtgaac cgccttagaa aatgagcctg tggcatagtt cgtattattg 120  
taatgaaaa atgcctttta caacacacat tctaagacga ttattgaaaa ccgcattata 180  
acgttatggc taacaacatt taaaacatgt cctaataaaa atccatcgta attccgctga 240  
aaaaaaatat aaccctagct agcctgttgg cgctcctccg ctcacctccc gctctagcac 300  
tataacatga gattgatata gagtgcaata cacttggcca attgogtttt aaaaatttat 360  
tatcctgatt aca 373

<210> 31996  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 31996

agctttcatc tagccaagat tatacaaaaag tgttacaaga gaacttaacg gtttctaatt 60  
 atatggggcca tcaaattctat catgtgttga cagtaattga ttagcccatg aatctccttg 120  
 ggggctgtac acactttggc aatggctttc gctttggcta atagtgcgg gagatcttga 180  
 cttccattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaatgcg 240  
 tcaatcacc cccctcttgc ttctttttcg gctacactcg tgcaaatect ccactagctt 300  
 ttgttcacgg gtcacagact ggttcaactc ttccttgtat ggacctatga tagttagcat 360  
 gctctgctcc gtgggttcca ag 382

<210> 31997  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 31997

tggaaggtag tcatacctca caaaatatat gtatgtgtgt ttacgccaga aaaatacctt 60  
 ggatatgcat gtatgtaatc gacgtagcaa aaaaatacct cacaaaatat acatatgtat 120  
 gtttaagtag caagacacct tggatatgca tgtatatagc aacaatatat atgtgtatgc 180  
 ttaggtagca cgacaccttg gatatgcacg tatatagcaa aaatagctca cacaaatata 240  
 cacatgtcga ggtagtaaaa cctcatgac ctaaccccc ataacacca aaaatta 297

<210> 31998  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 31998

agcttggaga agatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60  
 gcacgaaatt gaaggaataa aagaggtata gaagtggaac tttgaagtat gtctcacaag 120  
 actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaggtag 180  
 cttccttgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttctt 240  
 tgagaagcta gagcttagct acacacaccc ctctcataac taactcacct ccttgagaag 300  
 cttccttaag aagattccta aagaagctag agcttagcta cacatactc tctaatagct 360  
 aagctcacct ccttgagatg 380

<210> 31999  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 31999

tgagatgagg aagtgttgaa gggtgaaact tctgtctttt attgttgacc acagagtggg 60  
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 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aagcaggcga gtcctggga gtcaacagat aaaaggaaaa caagaccaca 240  
 aagcaaggag gcttgtggtg cgtggccacc tgtgaatccg tgtaatatgt ggattgtggc 300  
 ctctggtaat cgattaccaa ggggtggtaa tgcattacaa ggcttacaaa tgaagacagg 360  
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<210> 32000  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 32000

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 aaaaacctaa attgacaaac aaaatgcacc atggctaagg tgtgtgaatt tccaccaccg 180  
 ggaaacgcat tagacgacaa catgcgtatg tataatgttt ttaggataac ttaaattgta 240  
 gaaatcgaaa cgacacgaga caaatgtcta atttcaagaa taccggtcca caacttcgtg 300  
 aagatgagtt aagaatttca tgtcctaaca gtgattctgg tcacacaagt tacgcacatt 360  
 gtaataccct gtttcatggt 380

<210> 32001  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 32001

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[illegible]

<400> 32002

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<210>      32003
<211>      419
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32003
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13343

<210> 32004  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 32004

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 ggactatgat atcaattatc cttatcaaatt gtccatttgt gtcagccaca ttagtaagag 180  
 tttgggtgca aacaacactg tatcctttcc gccatattat cctttattct tcttcagtgc 240  
 tgactattgt ttgggggctt aaattgtgga gagcttcccc gctaaaactt ttaatgattt 300  
 tttttttcct tctaaattgg ccaccaaga taatgaggta tctgttctgg ccactgcttt 360  
 ctacggataa atgatttgga acgtg 385

<210> 32005  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32005

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 atcaatggga tctgcaaata agagaaggaa acagagagaa ggtgagagc acaaatgaaa 180  
 tgagagcaaa tgctctacca agctagagag aggttctttg agtccaagt tctattgcaa 240  
 atccatcata tcaccacaac ccaaaccoca attccaacta atagaatcac tctctatttc 300  
 tctctctct aactaacttc cactaccctt ccacaaaaca gacacaaagc atcaggcctt 360  
 atgtgggttg ggccttcaag aatacatctt gaagggccta tcccactntg tgactaattt 420  
 ccta 424

<210> 32006  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 32006



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 cttaccttan gtcgaaaaga aatttgtecc aacagttaag cgagactgaa gggaatatgt 360  
 gggccgtcat cgatgagtgc aaaaagaag 389

<210> 32009  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32009

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 agatgggtcga atccttcacg acagtagcaa caacaacctt attttcaaaa tggtgctggc 180  
 ccaagcagac catacgtnc tccaccaatc cagctgcaac aacagcaaca gccccagaaa 240  
 cagcaaacag ttgaggcccc ttcgcaaccc tcaactogaag aacttccagg caaatgacta 300  
 tgcaaaacat gcagtttcaa caagagacca gagcctccat tcagagctta accaatcaga 360  
 tgggacaatt ggctacacag ttacatcaac aacagtccta caattctgac aga 413

<210> 32010  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <400> 32010

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 aactaattaa tgtatcgaat catctaattt attaattgtt tatttttgta atatgtgaag 120  
 tataaataaa acataacaga caaggaagaa catttttcac gaaagaatga aaagaaacac 180  
 ttatgtcatg ggatgatcaa ctttaattacc ttaaattatg ttaatatttg aataacttac 240  
 gaaaaattta tgaattatta taattttact acctcaaatt tatttttgtaa taaatttaat 300  
 atgaatttaa tttgtctttc ttatcataag gttctgacat gtttgtttga cttacagggt 360  
 cttcaacta aaggtgagtt t 381

<210> 32011

<211> 287  
 <212> DNA  
 <213> Glycine max

<400> 32011

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 acgtagggat tgataatacc ctggagctgc ccattcttagt aggcttgaaa gagatcgctg 120  
 ttagcacagc tgacgtgata gcgaatacgc tagcacggat cagacttgct atttgatgtg 180  
 caagctgtat tgcgaatggc tcttgaagcg gaatttaatc cttacgtata tgtcccgcca 240  
 atcacaccgc catggtgcat tctctatata acttgactg atgctgc 287

<210> 32012  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 32012

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 gcctcaaccc cacacaccgc tctttctctt gcaccccgat gccgccacct gcctcccat 180  
 cctggtgctc ctctcgatc atcgtagcca ctctccgtg gtccagtaga ctgcgacgca 240  
 tgacttggag gagcgccatg ctgattggct tactcaaagc cgcggtatgc gtttaaata 300  
 catggaacac cgcatttggtg gtggtctcag cagtgatgct cgcttgacc 350

<210> 32013  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 32013

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 attttccacc atggagatgc agcggaagac aaagaagaag aggtaagagg tggcgccatc 120  
 cactacggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180  
 gcttggagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240  
 cacgaaattg aaggaagaaa aaggccacac gctgaacttt cgttgtgcct acaagactgt 300

tattgataga gtacaacaag tgtgcacatg cttctattta tagactacga gcttcttgaa 360  
agcttcttga aaacttcttg aaagcttttt g 391

<210> 32014  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32014

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tcacacaagg gtagcttac cctacgtagt agtaacagt gactaaaagt ccaaatatcg 120  
aacccaaagg accagttgtg ttcccaaaca attatttctt gtaaactaag catgtatggg 180  
taacttaaag gaaagataga tgtgggtcaat tgctcaatca tgtaaataag aattaacgat 240  
tgagaacttg atgggaaaac agttataana agccctctac gattggactc cacactctct 300  
ctaattttta ccaatactaa ctctaactaa tcccaaata atgccaatga ctaatatgcc 360  
caaattcaat tattaatctt t 381

<210> 32015  
<211> 482  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32015

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ctatagaata ctgaagcttg tgcggccatg gaatattctg tatgggacgg agcctattat 120  
cacacatggt gcatgagttc gcgtgctatg acatgggtaca gatcaccctt caggagtctt 180  
gtgcttattt gcagtatttt tgagctagcg taaaacctga agcgtatgta gcaggcttgg 240  
atgatagatt tcttaaccag ttttaagcggc aacaatacag tatctatgac cgttgaagca 300  
atatataccc tgtaagggtg ctgaattgtg tggattcaca tggactaaca cttcttgcta 360  
ctatagtcag tagatttttt tataatgctg gtggtacaag caaggatatg attctacttc 420  
aatggagcaa cagcagcatg aatcacatct cagccgagtt gccactaatg atgctactga 480  
cn 482

<210> 32016  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 32016

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 tctaccatga ctttaccttg atcatgtaga tgcattgtgc cttaggatca ttcaacagtg 180  
 gaaactagtt tgattcttat aacttgatac gacggggcta gtttggttga ttttcacgag 240  
 gaatcggggg acggcaacct agttgttctt atccgtctta tgccgccatg gctgagttta 300  
 gtccaacaag aggaatcggc ggacgatgct tgattatgat taggctacac tatcatgagg 360  
 aatc 364

<210> 32017  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32017

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 aacaatgagg atatctcaat ccgctatgag tttgatgtaa atgtcagta acaaggctat 120  
 cgtccattga tatacaggtc aatattctct ctctgttcat atatcgaaaa aggcaacaga 180  
 gaagaatcga tttgaatttg tcattcaaata aactatcgta tattgataac aatggcgatc 240  
 atcacatgag agtacctttn ttcccacttc accatggacc catctttaa ctacttcatt 300  
 gtggacgatt ggagacaatg ctatacaaac tggcaagttg tacggcattc tctaactgt 360  
 agttagactt 370

<210> 32018  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32018

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 tactgcaaca ctacacaccc actgcataaa gggatggcta aaaccaaggc agctattata 120  
 caaccatgac caagactaaa atataatgtc atctattaag tagtttggat cagttataac 180  
 attactcata cttgcatcat tcataatata agataatagc atcaatgtaa tcaacaagac 240  
 ataacaacgt cgtatccagc caaaagggtc atcagtgcac tcgcaaactt gccttgattc 300  
 ttggccttac tttctcataa agaaacacca cgagattggt cttatactta cactntggct 360  
 tatctgagat taactgtgat aaagtggagt t 391

<210> 32019  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32019

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 tccttctttg cagcaatttg gagtcaatga gcaacctgaa gcttatgttg caaacattta 180  
 taatagactc cctcagcagc aaaaccagca acaacagaat aattatgacc tttcaagcaa 240  
 tacatacaat ccagggttga ggaatcatcc aaatcaagat ggacaagtcc tcacgacaac 300  
 aacagtctgt cccttctttn tagaatgctg ctgggtccaag caagccatat gttcctcctc 360  
 caatgcagca acagcagcag cagtcacaac aaagccaaca agcaacta 408

<210> 32020  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 32020

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 atcagatta tcgtctccct ttccattatt gggggtacca cctgcgccgc cagatccctc 120  
 caccttttgg gcgtgttctt tgaatgatcc gtcccccttt ttgcacatgt tctgtagttg 180  
 catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattag 240  
 gtccttccaa gaatggactc gggaagggtc caagttcggc accacgtaaa cctaccccag 300



<213> Glycine max

<400> 32023

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 tatccactcg acaagggttg aagtagagga gaccttcaat cctataacgc aacgtggcgg 120  
 acaaaaacgg gcagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgcgct 180  
 tcactatcca tgttcacaca ttattgcagc ttgtggttac gtgagcatga actactacca 240  
 atatatagat gttgtttaca ccaatgagca catcttacag catactccgc acagcgtggc 300  
 ctcttgggaa tgaagcggca attcctcctt ctgatgaggc atggacacta atccctgacc 360  
 caactacaat tcgtgcgaaa ggtcggccaa aatcaacaag gataaagaat gagatgga 418

<210> 32024

<211> 235

<212> DNA

<213> Glycine max

<400> 32024

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 agaaatatta tgcgcctgaa tcggacctcc gagtgaaaag atatgaccat gggaaatctct 180  
 cgagagcttc cgatgttcaa tctcgaacgg ctagatctat catgcgagag tatgc 235

<210> 32025

<211> 407

<212> DNA

<213> Glycine max

<400> 32025

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 actctcagcc acttatgata gccgtcgatg atcccattac tgcttcccct aagctctctg 120  
 tcctttcttc acgccgcac ccattgccttg cgaactcctt ggagtaccct cgcgttgttg 180  
 tcactgaaac cccgtgcgat gaaaggcgtg atgctttcgt ctaatggcgc tcctctcatg 240  
 gggtagccaa gctgtcttat ggcagaacgg gattataatc atacaacccc ttgttcccat 300  
 caagggaaca tttggacatc cttcgcgatga agatagaatc ttgattcttc ctttcttcta 360

<210> 32026  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 32026

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 acaaaaacct ctagcatatg ttcccttaat aatgtaaaca ttaaacaatca gacagagtac 120  
 ttgcctctag cacagtgtaa tgatggattt gtatttatat agtttataat aatcatatat 180  
 ttaagaataa cgcgcattha tgaatacagg acaaccaaac aaacttaaaa taacaacgca 240  
 tgcacgcaaa cacatacatg gggcatgtcc tgcaaccttg attaacttga atattggcca 300  
 tccatagctt attcaatggt tggttagtgt tacgcttcat attcacatca caactaacia 360  
 caggaataaa gtcatatcca tatcacia 388

<210> 32027  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32027

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 ctcaaaagtc aagaacactt catgataaca aagatgatga tctaaagaat caaagaatga 120  
 gttcaagatt gaatcaagaa cacttcaagg ttcaaaagga aaattgattt caagaatcaa 180  
 gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctaaagattc 240  
 aagaatcaag agaagactaa atcaagatcg tcttaciaag tttttcgaaa actgagtagc 300  
 acatgaattt ttctcaaaa ccttntacca aagatttttt actctctggt aatcgattac 360  
 cagattgttg taatcgatta ccagtagcac aatgggttcta tataaaagcc ttc 413

<210> 32028  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 32028

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gttaagtggg aaatgacatt atgctgtgaa acatggctac gctaccactt acctcgggtc 180  
atccctgtct tggatctggc gccgtattga ccatcgcttg aaatgatctt gtncttgtct 240  
ttcgattcat aaaataaaaa tgcattgtgca tgtgtcccat gagcagctcc cagcaataa 300  
tttttttagca aaagcctgtt gggttcagtt ctaattaagc gctggtcgca tcccatgga 360  
tcgagcaaaa aggctcggat catta 385

<210> 32029

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32029

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ggggttgtag acacttcggc catggctttt gctttggcta atagtcgagg gaggtcttga 180  
cttcattca aggtcaagggt gaacctatgc atccatatag tcgcttcttg atgcaatgca 240  
tcaatcacac tacctctngc ttgttttttg gcctcactcg cgcaaatcct ccactagctt 300  
ttgttcatgg gtcataagact ggggtcaactc ttccttgtag taccctatga tagctagcat 360  
gctttgctcc gtggc 375

<210> 32030

<211> 244

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32030

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cgccatgttc ttagaacgtg caaaatcaca acgtcagaa tcacaatgct caaaatcatc 120  
atgctcaaga tcaggatgtt caaaatcacc aataacagaa tgcacatact caccagttat 180

66907: 9074753

ggaatgctca caatgatcat cacggataca acgatgccta cctaattctat gaaatgtcct 240  
atct 244

<210> 32031  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 32031

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agatttttgtt gtgtgaagat ctgcagagac cagagcttga agaggaagtc gtcctgagag 120  
cttgggatga gtttgtgagt gattgtgagg tcttagagggt ggaggagaca tccccactac 180  
ttgtatttct gcaatctttc atcattctct tctcttttgtt gtaaaggaag cttcccagtt 240  
atggaaagct aaatcctctg ttgaatcttc cttcacgtac ttgatgaaat atctttttat 300  
ctatctaata atgttttgtg tgttctctgt gctatcagta tttcattcta gtatgctttt 360  
accttgatca catagatgca cgc 383

<210> 32032  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 32032

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atattatttg ttccaccatg aagcccttga tgtgcaagaa gatcatatct ttctaaaggc 180  
tattctcat tctttggagg gagtggcaaa agactggcta tactaccatg ctcccagggtc 240  
cattttcagc tacggtgacc ttaagagggt cgccttgag aaattctcga gacaaatgac 300  
catacagaat atgcaatttc agcaagagac aagagtctcc attcagagtc tgacaaatca 360  
gatggggcag atggctactc agttgaacca agctcagtcc cataattctg acaaattg 418

<210> 32033  
<211> 548  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32033

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tccatatcta canntnatca ccgcgngaca ttgagtcctgg ttgacgtcct acgctcactc 120  
ataggagaat tcgagcgccg cagccgagga tcctctacag tctagcagca tgtctgcatg 180  
tttagaacat aacgacatgc aagcatcggt aacaaatgga cttcaagaca gtgcatctga 240  
ttatcacgcy cttcgctaag gccacactaa cgtgccaatc atcagaggct aaacatagga 300  
aaaaggctat cgtgctaagg gtaactctat aggacctata ctcccttgcta tgcacgcggtg 360  
tggttatcat gccttaacag accacactcc tgagcacacc cgattggacc aacaggacct 420  
cctggatgga cgtactgacg aaagcccaa tcgactccat gaccggagtt ataaagtata 480  
taatacctac actgaaggta tttaactcct aaatcctatg gctggcctgc aaatactccg 540  
aattcacg 548

<210> 32034  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32034

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caacaacgcc accacaagtg ttccacatgc ttatatttat atcctccgtg gatccctctt 180  
gataactatc ttgataaact accttgagaa tgttacttta gcagttaccg cgagaagaca 240  
gagcttaact caaaacgcat ataacgccac cctcacttgt tcacaagctg acttgataat 300  
ntaacttgag aagcttactt gacaagattg ctggagaagc tagagcttat cactcccacc 360  
gatttaatac ttaagatcac ctccctgata cgataagcta gaggctctcc g 411

<210> 32035  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 32035

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 taaatacacc tcttgccttt ttttggtgat tctttttccg taacgttatg aaactttacg 180  
 aatttcgtaa cgatgcttgt tttctttccg taatgttacg aaaccttacg gattacgtaa 240  
 tcataccttt ttttcttcc ggaacgttac caactttacg gatgcgcact aacacttctt 300  
 ttttaatttcc ggcatatcac ggaacttcac gaattgtgct acaatgcttt cttttgactt 360  
 ccggcatgtc acgaaactt 379

<210> 32036  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 32036

tgttgaaatt gccatgtttg gatgagttaa acatacccat tctgttttag ggtttttgtg 60  
 atgatgtttg tgatgtttat atgctgaaat tgctgatgga agtctgttag agacgagggt 120  
 agaactaacc taaggttaga aagtgagaat gtgatgttat gagtggaaaa agagtgagac 180  
 tttgagagtt ggaaggctaa gtctgaatta tgtggtaaata ggagggttaaa gtgagttaat 240  
 actagcttga aatgtcattc cgacatgtga gaaagcgacg ctgagctaga gagaaaaaaaa 300  
 aatgaccaaa gtgaacaaag agccctttct agggcaagat tgggtgttga agagtcaaat 360  
 tttgattcgg tgag 374

<210> 32037  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 32037

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 aaacttaaaa tgggacaatt acttaggcaa gtcaagtaac taatatttct taaacagtat 120  
 tggacactca taacgtataa aattataatg tttacctgag aagtgtcttg aacagaggaa 180  
 gtgcgacccc atctctcaga gtcccaaagg atggagctat taaaagcaaa acttgaaata 240  
 tgaattgggg gagtgatagt atcagtttgc tgctcatatg tccagatgcc aaccaatgac 300

ttgtgatgaa tcacatacag gtccttcgat tctactttct ctctgagtgc agctaacaaa 360  
gctgtcggcc atg 373

<210> 32038  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 32038

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aactcaaacc aaggcctaac cgtgtttgca cccactgata atgcattctc aagcctcaaa 120  
gcaggaacat taaactccat aaactcacia gaccaaattg agctgataca attccacatt 180  
ctccccactc tctacaccat ctcacagttc caaaccgcaa gtaacccctt gcacacgcaa 240  
gctggaaaca gtgatgatgg agagtatcct ttaaattgtga ccacctgacg cgaaccaagt 300  
gaatgtcgaa ctgaggtggt tgatacaaca gtgtccaata ctatctacag tgatactcat 360  
ctctcagtgt atcaagtgga taagggtgctt ctttctatga agcttttcgg cgcgacggca 420  
ccggc 425

<210> 32039  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32039

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cttcgcttaa gcactagtag ctcataagagc ttcaaaaaaa gagtttttta ctttcaatgg 120  
cttccaaatc aaccctaatg gaatctcaaa cctatcaaac atgtntatac atgtttaaag 180  
aagcctacta tacaatgggt ttgttagatg atgataaata gtactttgat gccattgtag 240  
agacaagtaa ttgggggttca aaatattatt tgctaaagtt gtttgcaact ctagtattct 300  
ccaatcagtt atctaaacta gaatatgtgt ggaacaatat gtagcaatac ttgacagaca 360  
agacaacttt tgcagtttcc aaat 384

<210> 32040  
<211> 369

<212> DNA  
<213> Glycine max

<400> 32040

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atataatatt attgaaaaag aggatacaga gtataagggg tatacaccct tacaatctgg 120  
tgattagttc ttctctgagg ccttttgcaa gagccaaaat aaatttattc ataatatgac 180  
taaaaacaca agatgtgtta attaatcatc ttaccgtcca agtaaattac agccatattc 240  
gtgcagcata acacaagtca cccccaccc tttcaaaaga ccagaacgga aaattctatc 300  
cgtacattga tttagattat tctctttcag gttgtggtaa tattaaaaaa gtattgtgct 360  
gttatgtga 369

<210> 32041  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32041

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aaaggagaag ggaaggagg gagaggtcat gggttcgaat tccccaccta catctaacaa 120  
actaacattc tcggataatt atgttttcca gaaagagtta taagacaagg taaaattaag 180  
ctttttccgt aagttaaaat taacttatgc ataatttaaa accagctttt ggagaaccta 240  
aagtgagcga ttttctatag aagtatataa gttgatttaa gacttagttc attctacttt 300  
catattttct tcttctataa gtgcttactg aaaaatttat cctaacactg cctacattac 360  
attgtttacc ccaacgtttc cccgtcctat gccactntca cgagtcacaa taaactcagt 420  
ataagctctn ttaaatgggt tcttagtgat at 452

<210> 32042  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32042

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tacaaaaatg ttttccccag aacaagtaca cgtaaattat aacaaatgaa caaacaacaaa 120  
 agcatacttt cattttctcc tatcaaattt atcctgagaa aacaaacaaa agtgagtcac 180  
 ttacagggaa caaattcttc cagaactgaa gatcagtctt aggaggctca actatcttgg 240  
 tggcccaaca gaacaacatt atgagagagc cacatgcaag ggagagagtt gaggtaagcc 300  
 aagggtatgg gaatgcattc agcaccttct tgttataaat gttgaacacc acattcagtg 360  
 cccaccatgt tgcanagtat atcccaatct tcaccttctt a 401

<210> 32043  
 <211> 530  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32043

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 tataatttct atcgcttaca cagatctgca cccttctaaa caaatcactg ggaagacgcg 120  
 tgatagagaa acaattaagt acaagagtta gaaagaatga tatatacacg gngaacctag 180  
 agtattcatc ggtcagaagt taaaaaaaaa ctaatttttc aaagtattaa tgcttggtta 240  
 aataattaac ctcttttaat agacattttt tcatacatat aaattaaaaa attaaactct 300  
 taatctcata tgattatctg ctaactatgc ctttcagtta tatatgatac cacataacan 360  
 acaaaaataa tcataataag aaaaaaggtc ttaataaccc catatataaa acccttggtg 420  
 tttctagata tgggtggtgt tanttaaatg gttcataaga tatganatga gatcgaagga 480  
 tagacnaagt acggtgttga atagtagtan aagaatattg aacctgttgt 530

<210> 32044  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <400> 32044

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 gtgctcaaat atatggggca atcttgattt gctttcttgc ttgattacgt tgaattaggg 120  
 gccggcatga gatggcccta cgcctataat gcattttgaa acaatacgac atgccacatt 180

gtccccgttc tcttgctatt gatgcctaaa cgcgcgccca ccaagtgttc tgtgaaatgc 240  
 ctcaatggca ttagcctgtg acttttgtaa ggagacaacc catgctgtat tatgctttgc 300  
 gcatattttc tagtatggct tcattcccga caaaggctag agcaattgcc ccacatatat 360  
 cctactccta gaaactgaca atctatgcac atagagcaca c 401

<210> 32045  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32045

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 gaaaatcaaa cttaaattgt ttgttaaata aataattctc ctacatataa atacaattta 180  
 caccactata tcaatcctat aaactaattt tgaatttgaa tttgaattta cacaataaag 240  
 tttgttcaat tgttgtaaga taatatctta ttatatTTTT ttagattagt ataaaattga 300  
 ttaaataata tctattata ttagtcataa taggacaatt cttaaattga ttaattagtt 360  
 aatctgattt agaatagctc aattgcattc ggtgaaacat acttgtgatg cagaaagaac 420  
 aggttcaagt ttcaagtatc taagacatgg ntgtatataa cctat 465

<210> 32046  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <400> 32046

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 ttatggacaa acagaaatgc agcacaagt aacaagggtgc ctgtaacaag aatccatcca 120  
 ataaccacca agctgcagcc acgataaaaa aaaaaaaaaa aaacagaaca tcttttactg 180  
 atagaaactt aacgggagac aaatctatca gagtgaagga aatgaaatga attcaactta 240  
 cgagtataca ggaccggca aagcaagtaa agaaaatact gcaaaaatta aatcaagtgc 300  
 atatgatttg gttacattt agtatagagt aagaaaaaga aaaaagacaa aacccaaatc 360  
 aaacatacac aatccgagaa atgcaacaaa gatcataaca gcagcaacag 410

<210> 32047  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32047

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 gacggagttg gcgccggcgg cggcgggtgat ggatgggaca acggtgacgg cggaggggtcg 120  
 gggttttggg attcgaataa tgggaatgat agcacggact tgtattaccg gacgatgatt 180  
 gaagcgaatc caggggaaccc tctgtttctt ggcaactacg cgaggtactt gaaagaggta 240  
 cgtgaattga agctatttag ttattacttt tagattaaag cgtgtagatg gatgaggtga 300  
 tagagttggt tatttgatgg cagggttcgag gggactatgt gaaagcggag gagtattgtg 360  
 ggagagcgat tttggcgaat ccgaatgatg ggaaggtgct atcgatgtat gcagatttga 420  
 tatgggagag ccagaaagat gcttcgcgtg ctgagactta ttttgatcaa gcggnntanna 480  
 gcagctccga tgactggtaa ctaacatcaa actcttgggt ggttctcttt atg 533

<210> 32048  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32048

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 aaagttcaac ttctctccct ttttcttctt tcaatttcgt gctccccctt ctctctttct 180  
 ctccctcttt ctttctctcc attgaagcat ccttccaagc ttcttatcca aggtcatct 240  
 tgggtggtgaa gtccttctt ccattggctta ttccctagtg gatggcgctt cctctcacct 300  
 cttctctttt gtcttccgct gcattctcat ggtggaaaat caccattaaa ggaactcatt 360  
 gaagctcaca gatccagcct ccatagaagc cncacaagca agc 403

<210> 32049  
 <211> 427

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32049  
  
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 ctaaagttcc aagcactttc tccatcaccc acagccacca ttagccacca caaaccatca 120  
 ttgtttctca ttgaaaaccc acaccgagag gaacccttca accaaagcgg aatcttccaa 180  
 cttggcttgc ggtttcggtg gagaacgaaa accctaattc gacctttcgt tttctttcaa 240  
 ggtaatcatg gttctatgct tgtttcttgt tagttccatc ttgtctttgc atcttttcta 300  
 actntggaac cgccattgca tgtcttatgc ttcctttgaa aaaccttaga gaaagagact 360  
 ntgtaaacgt tatectttca tgaaatgcat gttattttcg taacctacac tgaaccccg 420  
 tcacatt 427

<210> 32050  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32050  
  
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 tcttcacatg tcttggttca aatgttggtt acatgattct ttagagtttc caccgattaa 180  
 acttgctata gaagttagat ttgattttct atggttcaaa tttcttggtc ttgttcttga 240  
 accatgaatt gtgttgagtt tacgttcctt tgagttttgt cttgttattt tttgtggctg 300  
 aaacctaaac cataaaattc ttacaaaaat attaaagtag aagacaacct cataaatcta 360  
 gagtgacttg ttcacctatt gtagttntgt catagaagtc atgt 404

<210> 32051  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32051

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agccatcaag ggatggcgtt ttctccggga gcgacgcgtc cagctcaggg acgacgagta 120  
tactgatttc caggaggaaa tagggcgccg gcggtgggca ccaactggta ctcccatggc 180  
caagtttgat ccaaaaatag tccttgagtt ttacgccaat gcttggccaa cagaggaagg 240  
cgtgcgtgac atgagatcct gngttagggg tcagtggatc cgttcgatg ccgacgctat 300  
cagccagctc ctgggatatc cgatgggtatt ggaagagggc caggaatgcg agtatggcca 360  
gaggaggaac cgggtctgatg gggttcgatg ggaggccatc gccagctgt tatgtatacc 420  
g 421

<210> 32052  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32052

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gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120  
caaaactggt catgcatgca cctatgcgga cactcaactg gtcatgcatg cacctatgcg 180  
gacactcaag tgtcaaattt ttatgggtcat gtgacgctag ggctcaggat tcatttcctc 240  
tatttttagt caaccaacg ttcccaaaat atgttctttt atcaatttgt gcattcatcc 300  
gagtcattt tgggtactcg ggaaaatttt cacagcattc acccttcagg tgtatacaca 360  
ttntttcaaa aactagttat gatcagtga 390

<210> 32053  
<211> 470  
<212> DNA  
<213> Glycine max

<400> 32053

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agagaataag aaggagggag aaacccatgt tgtgagtgtc gttcctacat ggccaaattt 120  
tccactagct caaaaatc aatactcagc taatatcagt ctttctcatt acccaccgcc 180  
ctaccagcca agaacacca atcatccaca aaggccaccc ctaaatcagc cacaaaaccc 240

acctgctaca catccgaggc caaacaccac ccttaatatg aaccaaaca ccaaccaggg 300  
acggaatddd ctagaaaaga agcctacaaa attcaccaca attctggtgt cgtatgctaa 360  
cttactccca tatctactca ataatgcaat ggtagccata atccaacaa agattttctca 420  
acctccattd ttctgaggat acaactcgaa tgcaacatgt gcttatcatg 470

<210> 32054  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 32054

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gggatgtcaa tatggccacc gatgaagcct tggaatgaga aaccaagaag gcccgaaagg 180  
aagaacacga ccaaagccaa gttttgaggg gcttttatagg gcagcaatag tgagctcaag 240  
ctccgaagag gtgaaaggaa tcatcacggg tcaaaggcat gatcttgaag gacgagctaa 300  
aggcttgctt tatgtcgaaa agaaattdgt cccaacagtt aagcgagact gaaggggaata 360  
tgtgggccgt catcgatgag tgcacagaga agctaaatct a 401

<210> 32055  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32055

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acttttgagc tagaatgtga tgcctctaga gtgggagttg gagctgtatt gttacaaggt 180  
gggcacccta ttgcttattt tagtgaaaaa cttcatagtg ccaccctcaa ctacccacc 240  
tatgataaag atctttatgc ctttaataaga gccctccaaa cttgggaaca ttaccttgtt 300  
tccaaggaat ttgtcattca tagtgatcat caatcactta agtacattag agggcanagc 360  
aagttaaaca agaggcatgc aaaatgggta gagtacctac accaatctcc ataggttate 420

acatacaaaa agggacaaca aatgtggtag ctgatgcgtc tct

463

<210> 32056  
<211> 395  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32056

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ggcgagaatt cagaatttag ctgaaattat ttgagcacia gtttttgtgg cagatcaaaa 120  
aaatattctg gtcaaaacttt gggcttattg gggtcacata cacattatta ttgggcaaaa 180  
atttaagaga tacctattgg actaaatata cggtattgtt caaggtaaatt tgagcgacct 240  
aagaataaag taggaaaagt agagcgccac aatttgctgt tgctttcatt tagccaacac 300  
aaattgtttt gattntttta atatttaatt ataacattnt aaataattcc ctcagaacat 360  
atcaataatt tggaattttc aacagaatat agatt 395

<210> 32057  
<211> 500  
<212> DNA  
<213> Glycine max  
  
<400> 32057

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taggcaatca tgaaactcag ctccaaactc aaaagtggag gacacatgaa caaccctaag 120  
caataacatt catgtgtctc cggaaaagga cgagaatgga ggattgcctt gagggctctc 180  
tcttaagcaa tcatggaata cagctccaaa ctgaaaatg gaggacacgt gaatgacaat 240  
gcaattcact cacgtggctc cagaaaagga tgagaatgga ggattgcctt gagggctctc 300  
tcttaagcaa tcatggaaca caactccaga ctcaaaagtg gagaacacat gaacagccct 360  
aagcaataac attcatgtgg ctccagaaaa ggatgagaat ggaggattgc cttgagggtc 420  
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cctaagcaat aacattcatg 500

<210> 32058  
<211> 400

<212> DNA  
<213> Glycine max

<400> 32058

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agtttaaatg gtatttaatc tgatgtgaaa gccatacaaa caaaccttaa cagcaccatc 180  
atagtctgtg gaggcaagat agttctggat gtagttattc caacaaacac aactgagcct 240  
tgatctgttt gacatctcaa ctacaggata atggatgtca atggaatcat tgaaaagtgc 300  
attgaactca aatattttta ttttctttga tatcccagca gcagcaaagt aatcttcac 360  
cctatcaaaa ctacagagagc atattacatt tgcaggatta 400

<210> 32059  
<211> 526  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32059

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caacaagcca gtgtccctaa tctgtctttt tttcttgttt ccaaaaattg atatcatag 180  
tgtgggaagg acaaggagt atttcctatg gccgaaagct aattggagcc acagatccac 240  
agaaatcaga acctgcaacc attanggggtg atcttgctgt tgctgttgga aggtaactaa 300  
tagcatgttt ggttacaaga tgtgggtttt acgtgtactg agatgtttat agttataatt 360  
ntcacatcca aatgtaatt tcttacttct taacnntggt caaacatcng tataattggt 420  
aaccanagaa aagtgctagt ttcgtttctc ttacataat gaattgtcca tttattgggtg 480  
atcacaattt gataattggt gtcatgcatg cagaaacatc atccat 526

<210> 32060  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32060

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 ccagctgggt taccaagtta actaatgcat ctagtttgcc ttcaagcttc ttagtttcag 180  
 atgatgcagc tgagtttgta gctacctcat gcactcctct aatgattata acatcatttc 240  
 tggcgctaaa ctgctgggag ttggaagcca tcttctcaat taaatgtcta gcttcaatac 300  
 gagtcatgtc tccaagggct tcaccactgg cagcatctat catacttctc ttcattattac 360  
 tgagtccttc ataanaatat tgg 383

<210> 32061  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32061

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 aagagaatct ttcttagata caggagaaaa agtcattgtg taatcgattc cttctttttg 180  
 agtaaactct ttagcaacga gtcttgccct gtatctctca atgttgccca atgaattggt 240  
 tttgggtctta aagaccatt tacaaccaat ggcctttgcc ctattaggca actctacaag 300  
 gtcccaaact ccattgctct gcatggaatt catctcatcc ttcattggaat cataccataa 360  
 atttgactct ttacaactca tggcttaatc aaaatttttg agatcattnt caactccagt 420  
 attatagtca aattcttaca aatatacaat antataacta ggaacnaact aatntcttac 480  
 tctagtagat ctgcttaatg gtgtcatcac attntcttgt ggatcatggt gttagnagg 540  
 gtgtgatcat ttc 553

<210> 32062  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32062

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 tcctcacatg tctagtgcta aatgttggtta acatgattct ttagaatttc caccaattaa 180  
 aatagctata gaagctagat ttaattttct atgggtcaaa tttcttggtc atgttcttga 240  
 accatgagtt gtgttgagtt taagttcctt tgagttttgt cttgctatct ttttgggct 300  
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 agagtgactt gttcacctgt tgtagttctg tcatagaagt catgtcta 408

<210> 32063  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 32063

atTTTTctga gacgtgatgc aatccctcaa gttattgtta ctgatagaga ttcaacattg 60  
 atgaatgcaa tgaaaactat tttccccaag tcaaccaact tggtgtgttg gtttcacatt 120  
 gataagaatg tgaaggcaaa atataaaacc tttgtgggta aaaaaaatgc atgggattat 180  
 gtcatggaag catggaggag tctcgtggat tgccttctga gcaagggttc gatgagttaa 240  
 gaagtttgaa attgcttgct caccatggtc aatatttggt gactatgtca aacaaacaaa 300  
 gttgattccc tataaacaaa gatttgtaaa gcttggaaga ataaggtgat gcatctatga 360  
 aacacaacaa ctaac 375

<210> 32064  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 32064

agctttctgt gttttctagt ttccaaacct tgttctttca cagaaaacaa aagtgtgcta 60  
 tatcttttca ttctcttctc ccttttccaa aagaacgaag gactaatcgc ctgaattctt 120  
 ttgtgtctct cttctccctt tgccaaaaat aattcgacaa ggactaacgc cctgaattct 180  
 ttttgtgtct ctcttctccc ttttccaaaa gaacaaagga ctaaccgcct gaattctttt 240  
 gtgtctctct tctccctttt caaagaattc gaaacaacac agtctgagaa ttcttttgat 300  
 tcttcccttt cccttacaca aaatatttca atggactaac tgctgagat atcttttatt 360

tcccccttcac aaagtttcaa aggactaacc gcctgagaac tttgtctta

409

<210> 32065  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32065

ctctaagggc taccgtgtct acaacttgca aactaagaaa ctcgtcatta gtcgagatgt 60  
tgaagttgat gagtacgctt cttggaattg ggatgaagaa aaagtggaga agaacgttct 120  
tatacccgct caactacctc aagaaaaagc tgaggaagaa gaccaggtg aaccaccttc 180  
acctccacca caacaacaag atcaagaact atcatcacca gagtctactc caagacgagt 240  
aagatctttg gtggacatat atgaaacctg taacttggcc atacttaaac ctggaagctn 300  
tgaagaagcg ttaaagcagg aagtatgggt caaggcaatg gaagaagaga tacagatgat 360  
cgagaaaaac aacacatggg agttagtaaa tcgtcccat caaaaagata tcattggggg 420  
taagtgggtc tataagacan agtcaaccc tgatggcacc ataca 465

<210> 32066  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 32066

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ccatgccaaa atacatgaaa ataatgggaa gcttccttga gaatcaagga acgtagcctt 120  
cttgggaagc aaggaataat gcttccttga aaagctagag gggagctact cacaccctt 180  
caatatgaaa atacaaaaaa agtcctact acaaagacta ctcaaatgc cttgaaatac 240  
aaggctaaaa ccctactact agagtactct taacttgtac ccttaatttg tagggtaccc 300  
tataaaccta aaattgccaa aatataaggc ccacaagaag gaaaacctat tctaatttc 360  
acaaagaaca gtggacccaa ccttcgtcca tgggctc 397

<210> 32067  
<211> 479  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32067

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cccactactt gtattttcttc aatccttcat ttttctcttc tctttgttgt aaaggaagct 120  
tcccaaatat agagagctaa atcctctggt ggttcttcct tgtagggtact tgatgtaaat 180  
acttgatat ctatttaatg atgttttatg tgttctttgt gctatcagta cgccatttca 240  
ttgtgctttt gccttgatca tgtagatgca tgctttgtta ggatcattca acagtggaaa 300  
atgggtcta atcttagaact tgataagaca gagctagttt atcgtattat cacgagggat 360  
cgagggtacgg caaccttggt gttgtatggt tgcttaatgg ggtctgtcgt gttagtcaaa 420  
tgagaattga gatatgcttg atctgatang tagatatagc agaattggatt acattcaga 479

<210> 32068

<211> 402

<212> DNA

<213> Glycine max

<400> 32068

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gaatttatcg aagacctcaa cacagatcgt gatgattgggt ttctaaaagt gtgtattggt 120  
tgattgtgga atgtttatac aaaacaagtg agcaacataa tatgatttca aaattcaata 180  
atattttaca aggagagaac atatacacta tacataattt aaaaattgtc tcagcaaagt 240  
atgcatacaa acttgtcaaa ggaccattca aaggattatt ttacttact attgttgtca 300  
agacaatcaa taacatatcc attagcattc ctctacacta ttctgagttt ggttcaatgg 360  
aaactctagc tcacaggtg gatgatagag ttgtcttaac at 402

<210> 32069

<211> 493

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32069

gtccggcgat ggttcaaaac gattctccac atccacaaat cacgtataac ccaccatccc 60

ctgtttccca cctccaactg agctcacgta ctcccacgta gcccttatca ttgttctct 120  
 caacgccggg tccccatcaa tcttcccaag ctccacaac atccaagtaa tttaacattc 180  
 aatcatcaca aactaacaca gccagaagaa cagggcaaag gcagaaaact ctgccgaaaa 240  
 cacaaccaa catcacagct ttgcacattc aattaccca gtaacattct cttegttcca 300  
 gtttgtaac cgttggatcg actcanaaat tntactggaa gtctctagta cataagtcta 360  
 cattntgacc gttgggatct gctagaaaat gtccagaacc ctatatgtac taccatnttc 420  
 acaaccagcc atacacanaa cattttctgc acttataata aattctggtg cacattccaa 480  
 cagcaaaaac aac 493

<210> 32070  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32070

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 attgcttttg aagcatgcct aactgtccac aatgcccaac acgagcacia gtgcagctca 120  
 cacacatata cacacaaaca tattctttga taagtatagn ttatattgct tttaatttat 180  
 gatacttatt tgaattatat cttattattt ttgtaaggct actggggtac gctcaatagc 240  
 ttttcatect gatggaaggg ccctatttac tggacatgaa gatggtttga aggtaaaaaa 300  
 agttacaatg ttagattata taaattatta atgcagcatc tagaactgat ttaagatgtc 360  
 atttctatgt tctgatatgc tgtaggtgta ttcattggaa cctgttatat 410

<210> 32071  
 <211> 540  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32071

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 acctactagt tatatatcag agcataaatg aggaaattct gacatgctag gatgtaatcg 120  
 atggatgaac tgcttttgta taggatgggt caatggaaac atgcttacia tgaccttgga 180

acactaatgc aaaatgatgg catcaaccta ctttaggtat aatttgtttg ttccctttct 240  
 tgggtctcatt ttaaaacat ggatcacatt cgaatgaccc agcaaaacaa tattgtccga 300  
 cacttatcag ttgaattttc ctaccataat tataagttct catatatata caccacgca 360  
 tgatgtcaac attcatgtta attattgcaa tatttttaa cttttacca ggaatcantt 420  
 ttctctactt aatataacca ttntaaaaag aatgcgccat aaggaagtcc attaacttca 480  
 tcttttttac cettacactt ttctttegct cttatcaatg gtcgttctac ccgaaatatg 540

<210> 32072  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32072

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 tgaagatgac gattcagatg taagtcagat gtagctcagc aggcagcacc cttcaaataa 120  
 ttttctgaaa agatactcaa tattgtcact atatatgtca ggtatgcttt gccaaaattt 180  
 attgtcattt tactaaaatc ctttctgacc taacatgaaa gtgttaaaag gtgtaaattt 240  
 ttttctgac ctaacacaat acaaactgcg tgaaaacgat gtaatagata gtctctaatac 300  
 ctctcagtct ctcatagggc agatgggtgtg tttagtactg agtaggaggg gcagaaccat 360  
 tntttttaag acaaacaagt atgtaataaa aatgttatac atataat 407

<210> 32073  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <400> 32073

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 ttggcttttg ttgttacttc ttctcactt cctctctgca cattttttgt ttctaatact 120  
 tctatttagg tatgttttta tggcatttaa atacttagta tttcttttat tatttgatta 180  
 gtatgactga acatgatgat tatatttatt tgctattggg tgtttacggg tatgagtttt 240  
 aaactcaatt attttgatga tatatgacta gtgggatgta cttttatttg gttattatga 300  
 atgactttct ggattatatg acattctatg aagtattata tttttagtgt gatgaatggc 360

tatgatatct tgtttgattg gtttctattc tcatgtattc tggctatatt attatgcat 420  
 ttgaacaatc taactatttc ttatttgcac ggtatgggtg aacaagtatg ctatttcgct 480  
 atgtggattt atagctaact t 501

<210> 32074  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 32074

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 attcaaagat tggatctctt gttagtgtt attaatgaat agcttaaaca cttgtgcttg 120  
 agtgaaacag tagtcgtgag actgtggtt aagctgctt ccttaataac tgccttatga 180  
 ttaacttcat ctaatggtac aacttacatt ttattcttct ctatgcatag ctgcatattt 240  
 tgtgaaaaac aagtgatgag tagatattgc ttcatttttc ttatcatgca atcaataatt 300  
 tttgctgcat acacctttgt acatgatcac tgcattgtat tgtcacttga ggacaagtga 360  
 gttgttctct ttttgcctga ggacaagcaa aactgt 396

<210> 32075  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32075

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 agaaggtttg ttctaattt ctctacaatt gcctcacctc tcaatgagct ggtaaagaag 120  
 catgtggcat ttacctgngg tgaaaaaaca gagcaatcct ttgctttgct caaagaaaag 180  
 ctaactaagg cacctgttct agctcttct gacttttcta aaacttttta gctagaatgt 240  
 gatgcctcca gagtgggagt tggagctgtt ttgttacaag gtgggcactc tattgcttat 300  
 tttagtgaac aacttcatgg tgccaccctt aactaccctt cctatgataa agagttntat 360  
 gccttaataa gagcactctg aacttgggaa cattaccttg taccctanga gattttcatt 420  
 catagtgatc atcaatcact taagttcat 449

<210> 32076  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 32076

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 ctcttggttaa ttcagaatca cttaaaatta gtgaaaaaaa ttgggtccgt gaagaaaatc 120  
 caagccgagg cgcttccgta acgtttccgt gggtgatttc gcgaagggtt tcggccgttc 180  
 ttcgacgttc ttcattcggt cttcgtcgtt cttcggtctt caaccggtaa gttccctaaa 240  
 tcgaactttt caattcattc tatgtaccct tagtggtcct catttgcttt tacgtgcttt 300  
 catttacatt tcctttactt ttcgtacccc cttttgacgt gctctagtca tttgcttaag 360  
 ttattctctc gcctaataca aaaatacaat aaatttccac 400

<210> 32077  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32077

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 ggaatgttga gtttaatacc atcaattcgg ttttgtctag gaacaccatc attccctctt 120  
 ctctctcttt cttcttcatt atgatctcta ttctccattt gatccaacct ctcatggagc 180  
 gcatcatctc gttgtttcat taacctctcc aaatggtgca tcaaagcttg catttggaat 240  
 tgcgaaagcc ccactccatc attaggatta gtacctgaca tctcaaaca acaaatcaaa 300  
 cgtaacaaga caattatagt tgctggttga atacctcacc cactcaagtg tatcacacaa 360  
 ttatggctnt tctctaataa aacactcttg cttttacca ctctaattcc ccttgagttc 420  
 ttaagcaatt caagagatta tggccacaac anagaacaat tcaccaatat gt 472

<210> 32078  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 32078

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 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120  
 cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180  
 atcaagcctt gcctcacaat gaaaggtttc aagtcattaa aggcacatgt aatcgattac 240  
 caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattaca catcgatgt 300  
 aatcgattac cagagactct gaacgttggg aattcaaatt ttaaatgaag ggtcacaact 360  
 gtttaagaca aacaactgtg taatcgatta cactaattct g 401

<210> 32079  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32079

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 ctgattgtgc aagattttca ctactaatag caggaagata actgtggcgt ccctaaatta 120  
 atgactgggt tgatagtaat gatttaaata acaaaaacca tggtaaattt ttttttcttt 180  
 ttctttttca tttctttctc tttccaccat aactaggttt agaaggaaaa tcctcactat 240  
 agagtcctga atggccgggt cacaactcta ttcggagtca tttctttctt accgttcata 300  
 atctctaaac tattttgctg tttcaaaagg aagaatgtac cagccattac ttaggtcgt 360  
 cacgtgaaaa taaaagaata aaatacggtc gataaactct ttacaaata aatttgctaa 420  
 tgctttcttt tcacataaca agattgatca taaatgcatt cgtcatttac agctgtccaa 480  
 aatatgggag ttacanaat acatagtgtc at 512

<210> 32080  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 32080

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 attcttaat ccgagtgtga tgtgcagagt cctcatttgg cttccttttg ttattcttga 120

tgtcacatat gattccaagc atgaactcca tctacaagtt accaaggaat cagtgtgtgac 180  
 ctgtgcgtag aaaaaatagt ttttttcccc cttttattat aaaacaaagc attctcactc 240  
 ttttactatt tttcttttca ttgtcatctt cacaggaagc cttcaactta tttgatgtat 300  
 tctgaacact aagaatgaaa tctttcatgg cagctggatc atcagccctt aatttcatcc 360  
 cacaacctat tcagacacat aagataaaaa taagtcagag atgg 404

<210> 32081  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 32081

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 atagaaatcg gatcattact attagcgtat tgataaagaa atctttgaac aaatactcca 120  
 tatgggaatc taacaaataa aaaaaaaaaa cagaaaaaga ggagggtgaa tgttaccttg 180  
 aagcaaccac tttatcaaag gcactaatgt cagcaaacac ttctattata ataatcacac 240  
 aaatacacia taggccagcc aacagaaaac atatttatag ggaagtgtta atgttggtgc 300  
 gtgttttatt ggtaaactat atatatacga aagataacaa aattattcgg atccagaccc 360  
 agtttttagg acctccaacg ggaacttaaa taggcacata tggttatgca aaaatactaa 420  
 ataattaata attatc 436

<210> 32082  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32082

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 agtggtagct agagatatgt cgcaggggtc aggagacctt gnggacgtca ggtgggggtgc 120  
 tattgcccaa aaccaagctt gaccaatccc gacccaaccc aggcatagtc agtcagttag 180  
 aacctgtgat gtacctaaac aggcgagctc ctggcagtc accgataaaa gaacaaagac 240  
 cacaaagcaa ggaggcttat gtgggtggctg gccagctgtg aatcttgagt gatatatggg 300  
 atatggcctc tggtaatcga ttaccaaggg tgggtaatca attacaaggc ttacaagtga 360

aggcaggaag ctaagatggc ctctggtaat cgattaccaa

400

<210> 32083  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32083

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gcagctcacc aagatgtctt cctcgcttga tacgatgacc agatgccctt ccaactacgaa 120  
tttcaacttt tgggtggagtg ttgagggaac aacccccact gagtggatcc acgggcgccc 180  
caatagacag ctgtaggggg ggtaatatc cattatattgg aaggtgactt gacaggtgtg 240  
agggcctatc tgtactggga gatcgatctc tcccctaacc tctcggcggg tgccgtcgaa 300  
ggcacgaacc accattgaac ttggctttaa gtgggaggca ttgaatggta atttctccaa 360  
agtgatctta ggcacacgt taaactgga accattatcg atgagcactt tggctacgat 420  
atgggtccata cacttgactg atacgtgcan agccttatta tgccct 466

<210> 32084  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32084

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tctctagttt tacttaacct ttttcgggtg ttttgtacct aaattgtatt ttagaatgtc 180  
ctctttgatc tcaatttgga atcgtcctaa ttcaagttat gtaggctgag aaacaaataa 240  
aagttaagat acgtttccag ttcaattggg gtgcgaatct catcttaaaa nttatccaaa 300  
ttgaanaagg caaggcggtt cacatcaatt tgatatatat cttcttatag ctntttattc 360  
ccttattata tcgaacatta tattctcttt c 391

<210> 32085  
<211> 448

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32085

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 ccgtacattg tgccaaacat tgtaaatgaa ttgtgtactt ggtcatatgc ttcgcggtta 120  
 catgggagtt ggtgtgggat caattctttc aacgtgttgg gtcttataga tctacctaca 180  
 gtcggacata gaagtattga agtcctctgg atgagggttaa gaacaattgt cccaaactac 240  
 taactcaata tcgtcactta tctgagccat ataatggctt agaagaatga caagtgcctt 300  
 tntgttatat ttggtcttta gctaattcaa tgttcttgaa ttgtgcactt tcattaatat 360  
 agaatatcca tttttgtgga cntaatcatg acaccacta cgcattaaat ntgcaacata 420  
 tttgatgatt ccttcacttg tatatact 448

<210> 32086  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32086

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 tagcatgcca ctgagtacag gttgattcct aagtctatct ttatcatttg ctattcacta 120  
 accacctttc actgtaacta taattattct tatgatgagt tgattgatac ataaactgaa 180  
 tgcatacttc ttgngttgag atatgagtac tatatctctt ttcttaaaac actaggagtg 240  
 gtatgatgag tgattagatg gtcttttatgg aactgaacat gtcggacgac attgcacgcc 300  
 taatggaaat ctatgagatg catcttgaga atgtgggtgc ttcttcctat caactctaca 360  
 tctatgtgtc tataataat 379

<210> 32087  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <400> 32087

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cattatgac tatgttctcc atgtgataca acctgtcatg gagcgcatca tcttgtggt 120  
gcattagcct ctccatatga tgcatacacag cttgaattag gaattgacgac agctccactc 180  
catcattaag agtgttctctg ccattctcaaa catacaagct gagcgctcgca ctgaagatca 240  
tagctagtgg ggagaagacc tcacccactc aaatgtatca caccattatg g 291

<210> 32088  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32088

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gcataatcag acaacaaaca acaacaaaca tttgcactta aatcaactaa cacaaatatt 120  
catagagtca tgagcataac caaatcaac ctaacatcaa cacacaaacc aactaacaca 180  
attattaaac aagttacaga aaagaggaga aagacacaaa ccaactaaca caattattaa 240  
acaagttaca aaaaagagga gaaaaagggg agaaatcctg ggttgtctcc cactaagcgt 300  
ttctttaatg tcattagctt aacgggtcaa atgacttcaa gacggcatga aggtcacata 360  
gaacacatat tccttacatt ntcacttctt agctagagac tccatg 406

<210> 32089  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32089

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ggaagcttgc ctcaaagagg tccaggaagg ataaggcggc cgaagggact agttccgctc 120  
ctgagtatga cagtcaccgc tttaggagcg ctgtacacta gcagcgcttc gaggccatca 180  
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tctaggagga gatagggcgc cggcggtgga catcactggt taccncatg gccaaagtgc 300  
atccagaaat agtccttgag ttttatgcca atgcttgccc aacagaggaa tgtgtgcgtg 360  
acatgaggtc ctgggtaagg ggtcagtgga tctcgtttga tgccga 406

<210> 32090  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 32090

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 atgcattatg attcttgaac aagtaaacad tctttcctcc taggatagta ctattggagc 180  
 aagaccaagg tgtaagtaaa aatgcttagc aaggtagatt acaattagca acgttttaaaa 240  
 tcaagtaaaa taactcattc aatcaatatt ttcagcaacc aatgctaaag tttaaatatg 300  
 gcaccacgtt attagttagt ttattttgtt aaaatattcc tacaaatatc atggatatgg 360  
 gtttttttgt ctatatttcc tcttggtga ttcatt 395

<210> 32091  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32091

gtattaatct tgaagcaatg cttaaccttt gaatgtttgt tgaagtaatc ttgaacgcaa 60  
 cettgtttga ttattctttg gcatcattaa aatcatgtat taatacatc acatttggtta 120  
 tccgacaggt acttcactcg ggatgcaaca acacaaacta tcaactctaaa gccaaacctt 180  
 gagtttgatc agaattgatg catgcttttt tttttttgct ttaaagacat gtatgaaaac 240  
 tcacgtctct catccaaatc agagtatgac aaggaagaca cattcaatca tacgtgcatg 300  
 gtaaaatctt gcgtctagta aagatctaaa attcaatgat taacatattt tcttcctgag 360  
 gcaagaagga gatgacgagt tntataagag ccttattgat agcatccctc ttattccac 420

<210> 32092  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 32092

agcttttagtg cacacaagta catatcacag gtgaagcata aaattgctca tgaaagtggg 60  
 tgtttaaaag agcttctacc aggtttatct tatcatataa gcacttaagt agaaaattga 120  
 aggtattcag ttaagattat gaaagttatt tatgaccctc ctataagctt actgaatcac 180  
 acacttatga cataagcttt catctcattt tcatgcgata ggctttgctg aaataaacia 240  
 ttaaattggt tatccaaact tgccccatca aatgcacaaa actgatcttg aaatgcacag 300  
 tagagactca gagcaaacag aaagataagt aaccttctaa tacaatgttg acagtctgac 360  
 agcatgaaca tttgacatgt ttggcacctc gtggatatga aag 403

<210> 32093  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32093

tcgaggtagg tggcattctt cttagctttg cttttgttat gcactgtatg tgtagcattt 60  
 aaggtaggtt agttgaacct tatgatagat gaaccttagg gtagaggacg ccggaaaaaa 120  
 tggcggaagc ttggtgacgg tgagccttct ggaagaccg ttaggggttc ttccgaaact 180  
 tctggaagaa gatcttccaa acgatttccg gaagaagagt tcttccggaa gtaatgaaac 240  
 gacttccgga atgacaggtc ttccagaaag ttctcagaac acctcttccg gaatgttccc 300  
 ggaagatgta tttcttccgg aaacattccg gaagaggatt ctttccggatg acctttcagt 360  
 ggttccggaa gcactntccg ganaaccctt cttccggaat gtttccggaa gaagtacttc 420  
 ttctgggaag ttttttttct ttttaaataat tgtctttgtt catcgcttta gcttattttt 480  
 tatatcattn tagttgacta tctactaca ttattaattc taaatactta tgta 534

<210> 32094  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32094

agcttgtctg ccattattga cngaaggcac agaagacgac gttagtctct gcgtgttatc 60  
 aagcttttcg tcttacagat agcaaaaagt ttatacggat aaccactcgg gtatttcccc 120

ccgtcagcgt gactcaaaag tcagtatgac agatcttgtg agtgcggaag atgatgtaaa 180  
tctccgcatg tcaacgggct tgtcggacgc gattgacgaa ggtcgcaaaa gacgacgtta 240  
gtctctgcgt cttatcaggc ttttcgtctt acagacatca aaaagtttat acggataacc 300  
actcgggtat ttccgcccggt cagcgttaact canaagtcag tatgacagat cttgtgagcg 360  
cggaagatga cgtaaattctc cgcgtgtcaa c 391

<210> 32095  
<211> 501  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32095

ttgatggggc ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg 60  
gatgatttct ccagatttac ctngtcaac tttatcagag agaaatcaca aacctttgaa 120  
gtattcaagg agttgagtct aagacttcaa agagaaaagg actgtgtcat caagagaatc 180  
aggagtgacc atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa 240  
ggcatcactc atgagttctc tgcagccatt acaccacaac agaatggcat agttgaaagg 300  
aaaaacagga ctttgcaaga ggctgctagg gtcattgttc atgccaaaga acttccttat 360  
aatctctggg ctgaagccat gaacacagca tgctacatcc acaacagagt cacacttaga 420  
agaggcactt caaccacact gtatgaaatc tggaagggan gaagccactg tcagcacttc 480  
acatctttga agtcatgtac a 501

<210> 32096  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32096

cgcgccnch nggcccgtact gttatcacgc gancanctcg gacccgggag cctctctata 60  
gatcctgcat gcacgcacgc ttgttttttg ttacgaccg cagaccgggc gggtaogatg 120  
ggatgtcgag ccacatgcac aagcctatca cgccacatat tccaccattc cacttttgcc 180  
acctaacatc aaatgtcgga cagtcgagtt cttgaacgag acctacgtct tatcttcacc 240



<210> 32099  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<400> 32099

gtttttgtga tgatgtttgt gatgtttata tgctgaaatt gctgatggaa atctgttaga 60  
 gatgaaggggt agaattaacc tagggttaga aagtgagaat gtgatgttgt gaggtgaaaa 120  
 agagtgagggc ttgagagttg gaaggctaag tctgaattct gtggtaaattg gagggttaaag 180  
 tgagttaata ctagcttgaa atgtcattta gaacatgtga gaaagggttag gctgagctag 240  
 agagaaaagc aaatgaccaa agtgaaccaa gagccatttc tagggcaaaa ttgggt 296

<210> 32100  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32100

ttttgttaaa tcttaattaa aaaggataaa atataatttc tgtacccta ttttttcaaa 60  
 taagtaattt ttatttttta ttttttaatt gagacatttc ttctcttact tttaaaaatt 120  
 cattatttta attctcattt ttatttgata aattttgtcc cccaatttta aaaaaaaaaat 180  
 ccacgatttt agtttcatga ctatcaaagg ttggctatgt attttttata atttttttta 240  
 taaattaagc ttattaataa ttaattaatt ttaaaaaaac ttctttcaca tgactaataa 300  
 tttagatata agactaaaat catttttaat tgagacattt cgtctctcac ttttaaaaat 360  
 tcactattnt aattctctct tttatttgaa aaat 394

<210> 32101  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32101

aatctccttt gacatcagac aacttctttc gccacaagc tgactcagaa attggggggc 60  
 ttatgtactg tccaatgtcc acaaaagggg catgacaagt aacatgatgc ttcaacacac 120

acgtcaaccc tccatgtcag ccttggaaca ggagcacaaa cgcattcgccc ttagaaatta 180  
 ggctactgga ctgacaagtt atctctaaac actttaatat ctgaatatta ataataatgt 240  
 tacaaccttc ttattattaa gtggcgggta ctcaattatc tataagatat gaattatcta 300  
 taagtaacaa cttatctact agctattatc tacaagttag aaattatctg ttaagggtgt 360  
 tataccactg taacagctca taaaaataag gaccanaac tctcatctca ctctataaat 420  
 atcaggttct atctcaccat ttctattcaa ttctaaacta actcacgtac ttacttgaac 480  
 gtcagagtcc ctttggttgc aagtctccct tcgtnngtct ctaat 525

<210> 32102  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 32102  
 ttgcttatcc tatgcttctt tggccgtcgt tgcattagat atcttctcaa atgtatcttc 60  
 atccaccgat tgataaatga gaaagagagc tttcttgtct ctctttcttg actccttcaa 120  
 cgtctccttt acaccttgac ttagcgaggc ttcattctgc tctcgaagc cattctctac 180  
 gatatccac acatcttgag ctctagtag cgccttcac ttgttactcc aattatcata 240  
 gttgttcttt gtgagcatcg gcatttgga aggaaaacct ccattcgcca tcttttgagg 300  
 atcttgaagc tctgatacca atttgttga aataaggctt tttatgttta ggaaaagtgt 360  
 ttaagaatat tggagactct gaatagaaac ttgatag 397

<210> 32103  
 <211> 532  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32103

caattacaat gttttggtaa tcgattacca gtgtgcttga acgttgaaat tcaaattcaa 60  
 atgtgaagag tcacattttt tcaaaaaaaaa gctttgtgta atcgattaca ctgatttggt 120  
 aatcgattac caatgattgt ttctgaataa atcaaaagat gtaactcttc aaatggtttt 180  
 tgactttttc aaattggttt taagtttttc taaaagtcac aactcttcta aatggttctc 240  
 ttgaccagac atgaagagtc tataaaagca agactntgtt ttgcattttc aaaaaaaaaa 300



tgtgacttac aatataacga gaccaacctc tgaaccacgc tgcgggttgt attctgaacg 480  
ctntgatata tata 494

<210> 32106  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32106

tagcttgttt caaagaaaat ttgtcccaa ttttggggag taattatcaa ggtaaatttg 60  
ttccaaattt ggggcagaca ttgngtaaga attgaaatgg tcaaagtaaa tggaataccc 120  
acactaattn tgtatatatg cataatgttt ctatttatig tgtcaaaaaa aactgtaagt 180  
acaaatgaaa ttaataagtg tgtatgttgt aattccatga atgaaagctg agtgcctaaa 240  
taaaaggcaa gtatgggggtg ggaatgaatg aaaaagtga ggtttatcta tggatgaatg 300  
ctctcctaga acctaagctt ttgaatccta gaacaaccat gatttggttg cagcctaacc 360  
ccattacaag cct 373

<210> 32107  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32107

tttaatggat tttcaagggt tgagaagtga aattgagaat ggggtaaatt tggagtaaaa 60  
ccttacctca cacaagtcta taacatcaat ttaaacttgc tcaactggat ttacacctaa 120  
aatttcaccg aattaaaatt tgactcctca acaccaatt ttatcctaga aatcgctctt 180  
tgttcacttt ggtcatttgt ttttctctct tgcacaaccc anactttctc ataagtecta 240  
aatgacatth caaactagga ttaactcctt ttaacctcca aataccacta aatccagaat 300  
tggccttcca aatctcaaag tctcactctt tcttactca caacaccata ttctcacctt 360  
ctaaccctag ggtaactcta cccttcatct ctaaacagtt tccattagca atntcagcac 420  
ataaacatca caagcatcat cat 443

<210> 32108  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 32108

tagttgcatg caaaagcagc actggattaa gtgactgcag gcttagccca acatgtcgca 60  
 ttgagcccat atcctcattg tgaaaacaat gagcttagcg agtattgact cgctgagcgc 120  
 tttcaagaac ttccaattgg cctcttttct tctagatgct cgccacgtgt ccttccttgt 180  
 tgtgtttctc gtgcttagcg cgtacaggca cgctgagcga gctactccaa cttcaaaatc 240  
 ttcaattctt cttttcctac aataaaacat taaaagctaa taaaatttct tagaagttaa 300  
 agacactaaa cttactccta attaatagtt atattagcat aaaagtgatt aaaacaaagt 360  
 tctaagtaat gaaaaatgta agataaatgc taag 394

<210> 32109  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32109

caatthtttca tgtacaattg tacatgaatt gttatgttat gctattcttc ttccgttgtt 60  
 agtgcatact attagtatgc tctttatctt tcattgtttg aggttctgat agagaattag 120  
 ttataaggat agtttggtgg ttgaaggaaa aagaaaagaa gaagagggtcg tgggttcaaa 180  
 atttaaattc ctctactaac aaaaaactaac aaattattaa cttaaatttg tctttctggt 240  
 ttaggaaatt ggctagttat atgagttcaa tcaagacatt gagcatgcta aatcatcttt 300  
 agctgaactg tttgttcaat taagatgatg agacatttag agtatcggtt tccatttcaa 360  
 gcctctcana attttattct ttaaaaatac aagtaatggt gtacgttttt tgtecgccaag 420  
 ctaactaac ttattataga taattcacct tcaggtagta agcttatagt ggaaaattat 480  
 gaatgcanac ttcataaaca ccatcattca ca 512

<210> 32110  
 <211> 158  
 <212> DNA  
 <213> Glycine max

<400> 32110

agctttttatc tgttttttgca acgctccaca tgtttctttaa atggtgtaat caattacact 60

atatctgtaa tcgattacca gtgtatctac acgctgaaat tcaaattcaa ttgcgaagag 120

tcacattctt tcataaaatg cattgtgtaa tcgattac 158

<210> 32111

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32111

agccccgtag nggtgtgctta aatgtctaaa ataaaagaaa aattatgtaa taatgcctct 60

ttgccgaaaa ttttatcagt gaaaataaaa tattttgcat ccgaatcttt gccgatcctt 120

ccccacccc acctcctntt ccccccccc accctccctt ccccccccc cctccccccc 180

cctccccccc ccccccccc cccctctctt cccctctctt ccccccccc ccccccccc 240

cccccccccc tctccccccc ctcccccccc ccccccccc cccctctctt ccccccccc 300

ccctcccccc cccctctctt ccccccccc cctctctctt ccccccc 347

<210> 32112

<211> 547

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32112

agccgaacac atcganggat tgattgggtt ccgaagtaac aatttggcaa tttnggntaa 60

ccggaacaat tggcccttct cttgcatttt caaggcttgg ggaaaattgg gcgaggtgga 120

gggaacgccc ccgccattta cgcaacgagc ataatgtaaa cctttacggt tttaaaagct 180

ctatagttgg gcctaggctt tagagntttt cctattgtta aggctttgctg tcctttgctt 240

cctgccttat cccctctgca ctcttctttt tcctttctgt tgtctctctt ctcttctctt 300

acttgccggt tactctcttt cctgacctct tgactctgct ctctctctct gtgctgcttc 360

tcacttctct tcttgcttct tccgcctgct tctcatctct atcttactct ccaactctct 420

tcctgtggtg gtggttgagg tcgtctctct cctctctctt ttctctctac ctctctcttt 480

cctctgacct cctcccccc ctctcttttc ttgtccccgc attcttccat ctcaatcctt 540  
 tgtccccg 547

<210> 32113  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 32113

agcttttgatt cctatgccta gggatatgt ggggtaatca ttctagccct tatgaaacta 60  
 catacatgct aaaaaatggc aaacatacac ataccaaatt gtttcatagg ttattcccca 120  
 caaaatcatg cgcaaagcc atcgaggcat ttcaccgaac acttggtggg catatgttta 180  
 ggcatgaatt gtaggggaat ggcggcaatg tggcatgccc aaccttttca aaacacaact 240  
 tacgcctaag gccattgcct acaac 265

<210> 32114  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32114

atgacaaaag gtgcagaaca cgacgttagt ctctgcgcgt caacaagctc gttttccnct 60  
 ggttgacgaa agatgcggaa atcaattgcc aaaccggtag ccccggccta ccaacttgac 120  
 tttcccggtt cagggttaac agcaattggt tgtacgaata atcgcttgcg tatattcgca 180  
 tgtcaactgga ctccacgggt ctggatggca aacagtgtag acg 223

<210> 32115  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32115

gcnnatagcg gtcatttaag cagaatgcag gggaaacact taaaaccggc ccgcgcaata 60  
 ccctaaatgg ataacaattg gccctggncg acccctaacc cgcccccccc ggcccccccc 120  
 acatcacct cctactcccc cccccccct cctcccccc cccaccacct cccccgccc 180

ccaccccccc cccccactca cccccacccc ctcccccccc cccccccccc cccccccccc 240  
 cccccccccc cccccccccc ccccgccccc cccccccccc cccccccccc cccccccccc 300  
 cccccccccc cccgaccccc cccccccccc 330

<210> 32116  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 32116

tgcattagat ttttgctccc tcattgaaaa ttaagctaac tttggatgac taccaaaatt 60  
 ttttagacat taatgatttc ttaattatta tatataagaa caatttgcca tccaaaaact 120  
 aatatattgt ttaaaaataa tccaacgagg caacgataag aggctttgac caaaataaat 180  
 taacatgagg ctatggagga agcagcagag catattacgt taagactaac tta 233

<210> 32117  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32117

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 tctctagagg cgaactgcgg catgccagcn ttgctcaaag ttggccagga aggaccaggg 120  
 aggccgagga acataagttc ggtccggagg atgagcagga acggtttaag aaggctgggc 180  
 cccaccaacg cctttagggc acccaggcgc cggctgcccc ccccgacccc acccctccaa 240  
 ctaccccccc cccccctacc cccccctccc ctccccact tccccccccc cctcctccct 300  
 cctccccct atccctccct gccccctat cccctcccc tctcctcctc cctccccccc 360  
 ctccccctc cctcctccc cctcctccc cccacacctc ctcaaccccg cccgcccccc 420  
 cctaccccc cctccccctc cgtccccact cctccgaccc cctcctccct cccccctccc 480  
 tctcctcgcc cgcgccg 497

<210> 32118  
 <211> 148  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32118

agcatagcaa ctagtggaag ggaatgagag gtgtcgcaac ctacctttcg gcgggaggcc 60  
 gacgcgtgac tcgcgncatg cgtgttccac gaaaggaata cgcacggagt cgccaccaac 120  
 gttctattga ggaaaaccgc gcacaacc 148

<210> 32119  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32119

agtttcaaac caaatcttga gaagatccaa cggttaacga aggttgggca gcgcttttac 60  
 cgaaacagct catgtaactt ccttaagaag cttcattaag tggccttctc aagaagcttc 120  
 ctgcgcgactt ctttgnacac ctttctcagc acgcttcttt gacaaccta 169

<210> 32120  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 32120

ggcatctaac aaatcttgaa gttgaacagc actttttaagt tttgtctgca cacaaaagat 60  
 cattaatatca agcaaaagag gtaaaaaaaaa aaaaaatcca gaagatcaaa taaaagtaga 120  
 caaatattac acaaacta gaaaataata tcacctcagc tctaggtcgg cctccattgt 180  
 atttcaacat taggttttagc agcttttcct cagcaacttt tagcttcacc ttctgtttgg 240  
 gagctctatc accactgccg taacacgaga gtcaatggcc agaacaagat gcttaactaa 300  
 cttaagcgta aacggcgaca gaacatactg accaacaatca cgcactaccc ccgtacctct 360  
 cagattgtcc 370

<210> 32121  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<400> 32121

<400> 32122

<400>            32123

<400>            32124

13394

[illegible]

cccccgccc tcccccccc tctcactcc cgccaccccc ctccccctct tccacccgc 420  
ccaccccctc cctccccccc ctgcaccccc ccc 453

<210> 32128  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<400> 32128

agcttatata agtttacata ttcaaattta tgtgaaaata gaatttaatc ttatatatta 60  
tattctacag ataatatata agagtataaa aatataataa attaaaaaag aataaacttt 120  
gaattttgaa ctatttttgc atacaattta tattaatact atattttgta ctaaattatc 180  
aaatggtcac atgggtgaaa tgataaaaga gtatgtcatt cactccaagg actgtgggtc 240  
caatccttcc aagcattttt ttaaacttct tatttcttaa gacaatattg gtcaattctt 300  
tagtgtaatc aatatttaaa atttaacacg aaatgattaa tcaacagaat tctacaatta 360  
tgtcttaatt taacatattc attaaccaag atacaataat ga 402

<210> 32129  
<211> 517  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32129

aataagtaac atatgtatgg gaaaacacat acaggaaatg gatatttctc accatacaaa 60  
cgaaaaaaaa acataagtta ttgtccaaac ccataaatca caccaaacca acacaatcaa 120  
agaaaaacac aaccaaataa aattaaaca aataatgaaa aaaaaattaa ggaaaatgaa 180  
gaagtgggta tggtgagaaa tgatagaaga ctgacacata tgtgtcctcg ccaattagct 240  
ccaacttctc gaaacaaatg atgcttcttt aaccacacaa aggagactcg ttcacgttga 300  
gttgcccagg ggttgccata gccattactc ctctcgcaa atcctagagg ctcttcttct 360  
gcccttaana aacaccgaag ccgaagagta tcgaaagagg atcttttgca tcaagtgatc 420  
gaaggagaaa ggcgttgagt taaaaacat gcatgtacac gttacaatgt ttcgaagata 480  
cataacactt gatacgaang agactacatt aattgga 517

<210> 32130  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32130  
  
 agctttattc tgctcgattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatggtg 60  
 gtcaccagag gagcaçaaac cacaaaccct tgcaacaggt acagatttct gattcaaggc 120  
 cagctggggtt acgaagttaa ccaatgcac cagtttgct tcaagcttct tagtctcaca 180  
 tgatgcacct gagtttgtat ctacctcatg cactcctcta atgactatgg catcatttct 240  
 ggccttaaac tgctgacagt tgcaagccat cttctcaatc aaatttctgg cttcagcagg 300  
 agtcatgtct ccaatggctc caccactggc agcatctatc atacttctct gcatattact 360  
 gagtccttca taaaaatatt ggagaagaag ttgctctg 398

<210> 32131  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32131  
  
 aaatctgcac ctgtcgcaag actctatggt ttatgctcct ctgacgacca ctatatagac 60  
 ctttgccctt ctgtgcagca atcttgagca attgaacagc ctttaagctta tgttgcaaac 120  
 atctacaata gacctcctca accttagcag caaaatcaac cacagcagaa caattatgac 180  
 ctctccagca acagatacaa tcccggatgg aggaatcacc ctaatctcaa atgggtctagc 240  
 cctcaacaac aacaacagca gcctgctcct tctttccaaa atgctgctgg tccaagtaga 300  
 ccatacattt ctctccagt gcaacaacaa caacaacatc aacagagaca acaatccact 360  
 actganggcc ctctcaacc ttcattggga gaattagtga ggcacatgac aatatagaac 420  
 at 422

<210> 32132  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32132

agcttgacta ttctcgaccc accccgggca tagtcgggtca gtgagaaact gtgatgtacc 60  
 taaacaggca agtccttggc agtcaacaga taaaaggaac aaagaccaca aagcaaggag 120  
 gcttgtggtg gctggccagc tgtgaatttt gtgtgatatg tggattatgg cctctggtaa 180  
 tcgattacca acggtgggta atcgattaca aggcttaaaa atgaagacag gaggctaaga 240  
 tgggtctctgg taatcgatta ccaaggggtg taatcgatta ccaggcttga aaacgaagtc 300  
 aggaaactaa ggaagcctct ggtaatcgat taccagcctg tgtaatcgat tacacagagg 360  
 aatgggtcac tggtaatcga ttaccaggta tgtgtaatc 399

<210> 32133  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32133

cctctcataa ctaagctcac ctcttgaga agcttcctta agaagattcc taaagaagct 60  
 agagcttagc tacacgtacc tctctaatag ctaagctcac ctcttgaga tgagaagcta 120  
 gaacttagct acacaccccc tataatagct aagctcacc ccatgacaaa aaaacatgaa 180  
 aatacaaaaa aaagtcctta ctacaaagac tactcaaaat gccccgaaat acaaggctaa 240  
 aaccctatac tactagatgg ccaaaatata aggcccaaac gaaggaaaaa cctattctaa 300  
 tatttataaa gataagcggg cttataacttg gcccatgggc tcgaaatcta ccctaaggct 360  
 catgagaacc ctagggcctt cccttggaac tctagcccaa tctacttga gtcttctacc 420  
 caatgccctt gcgggatagg attgcatcat aacgtatcta ccatanatgc gatcatntc 480  
 cttttcatca tgggcgggtac gacttgggct gcgagaatct ctcatttnt tgcatttcc 540  
 t 541

<210> 32134  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32134

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aatgcatgca gtatttgctc tctaataata atctatacaa acattgatag aattcagtaa 120  
gacaaaaagc atgactcaca aatgaaagtg ttggcataac tgtgtgcaca tctacagcc 180  
acagccacct cacctacatg aacaattcac agccgtacaa tctatcaa atacaacca 240  
gttcacaaaa cataaacaac aactgattgg aattaaagta tcaaatcag gttatcaatt 300  
gttcgacaca tccaaaccct atgaacaaca acaacaacac gaagccacct ccattcatac 360  
atcatataat agctaanaat tccaagggtta agcagaaaca c 401

<210> 32135  
<211> 521  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 32135

atcctaagcc caaataactaa gatacaccat aactaacaac tgttctttga tgaaaaatat 60  
cataatgttc acacacatct cttagatggc ccatgcctca taatgatgta gtcaaattaa 120  
atgtagatga cagctgcatt aatgggggaa agcttggaag agatgtaatt agatcaagta 180  
atgggtgattg gtttgatgac ttacacagctt tctatgacca aggtgacatt ctttttagcag 240  
aatttcttgc tacaagagac aggtcaata tttgcttgga taatggggtg caagggtgtg 300  
atatgcgagt tggattcttt ggatgccgtc aaactcacat ttatgactnt ggcagtacaa 360  
tagacctaca tcaataggac ccacatcatt acgctgaagt tctttacgac atcagcagta 420  
tcattcctaa tcgatggaaa gtggatcatca tgcanaatgtt catcatgcat accccttang 480  
agaataataa ttgtgctcga ctacatggct anacttgag t 521

<210> 32136  
<211> 404  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 32136

agctttgatt ttcatacatt actttacatg cacatgcatg agtcattaat gaatgctcaa 60  
agctgtctgg attgaattgg cctaattntt ttgctaaact tgctgcacta ngatgggtac 120  
attgcacatg aattgctata caatatcaaa ttctttcttt caaagtaata cacactgagt 180

tgtgattttt attanttgta tggtaacaca tacaattaat aaaaaccaca cacaattgat 240  
 tgaattcttg gtcgtcatatc ttgggataac taaaataata tgggtgtttt tcatgcaaaa 300  
 taatttttat gctaaatatt agttggatgt gcctttgtag gcgatggctc taaagctctt 360  
 tgctataagg gctaagaacg ccaccacagg ggagggatct aatg 404

<210> 32137  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 32137

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 gagagcttga gatgagtttg tgagtgatta tgaggctcta gaggtggagg agacatcccc 120  
 actacttgta tttctgcaat ctttcatctt tctcttctct ttgttgtaaa ggaagctaag 180  
 ctttccagtt atggaaagct aaatcctctg ttggatcttc cttgtaggta cttgatgtaa 240  
 atatcttttt tatctattta atgatgtttt gtgtgttcac tgtgctatca gaacttcatt 300  
 ctaccatgca ttgccttgat catgtagatg catgtgtttt taggatcatt caacagtgga 360  
 aactggctctg attcttacia cttgatagga tagggctagt ntgtcatat 409

<210> 32138  
 <211> 197  
 <212> DNA  
 <213> Glycine max  
 <400> 32138

aaatgaggta ctgaaacagc aatttccata tcatcaagtt ctttcattat acatgcactg 60  
 cgaacttaaa aaacaacggt gaattaacta tcatatctgc gccaaacttc tgtcttgatt 120  
 ctccgatcta aaaaatctat attagcaatt tctctaatat tctaacattt attgctggat 180  
 tattgaggcg taaaact 197

<210> 32139  
 <211> 113  
 <212> DNA  
 <213> Glycine max

<400> 32139

cctttacatg acttctgaag tgaagttaca tccactctat tccaattata aatgggtgta 60  
tttaaataac aaatttactc aacgtctatt aagatcttac aatatgattt ctg 113

<210> 32140

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32140

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aggttggttg gcggttatag ataagcatca gcggaatgc atatcacgag ccaattgttt 120  
ttttttttgc tggaaattaa gagataataa accaattata tatatagcag gcttattgta 180  
taactttaaa atgtttgtct gataatcacg atcaggataa gatcaatata ataaaaatca 240  
aatcaaata tagaatgtaa tataacaaaa tggcttggtc tttgtaaaag gaaaacataa 300  
tcttttaaaa aagttagatg aaaaaaaaaa gcaaaaaaac tctactcttg gaccttggtc 360  
ctcattctca tttctnnccc tctatttgta gagacatatg 400

<210> 32141

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32141

gaataggatg tcaattatgt gtctaccagc actaaagttg cacgaaattt ctacttgcct 60  
ttatgaatag ttgatggcca cgcgtgttac ctctaattgc actaaaattc tcaaccagat 120  
ttggtgcata tgccgccatg cgtttatcta cacccaaaaa aatacgtgtc aatacacctt 180  
ataagtatgt atagtgggct gtcatttatc tggatgaaat ttgaagtgat tattctatga 240  
tgataccctt aattagcacc gttgattctc cattataagc ttcagcaaatt tattcgtgat 300  
aaaacgttcc cctgatactc tcgtttcatt taaaaaaaaa aaaattaagg attntgttta 360  
ctctccgatc gttaatatga agttcatcaa cccttagtgc gagggcccca ccatgtccat 420  
tgaagctttn cagcagtacc atgtct 446

[illegible]

tagctttact ttagattcta gcaatgaccc actaacctag aattaaaata acttaatgcc 60  
 attaacctaa ggaattaaaa caaactaaat ggctgagtgt aactgaaatt gttggcaacc 120  
 aaaagtcacc cccaacagcc aacaagtcag ccaccatttg gtctcccaa aggctgatgc 180  
 ctaggttgcc aattgggccc ttattacaac ttgaactaaa gcccttttag ttgattaacc 240  
 caaaacatat ttttagtcag ccaactttac aaggattggg ccattattta cacaaactaa 300  
 acactctaaa attgaaataa agtgggtgtca tttagtcctc catttggggc atgatacaac 360  
 tcacaacctt ggacttttct tcttgaaact t 391

<210> 32145  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 32145

cgagagctac cattgttcat tttcaagggt ctctatttat aatgccctg agtctgacct 60  
 ccgcgggaaa aggtgtgacc attggacttt ctagagagct acgttggtta attttcaagc 120  
 gtcgctatat ataatgcccc tgagtctgac ctccgaggta aaaggtatga ccattggaat 180  
 tgctcaagag ctaccgtggg tcatTTTTcaa gcacgctat atataatgcg cttgagtctg 240  
 acttccgagt gaaagggtat aaccatgcga attgctcaag agctcgcttt gtacagttcc 300  
 gagcgtgttg ttatattatg cgctg 326

<210> 32146  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32146

ttgtttatct tttccttcaa catacattgt tgtaacttta ttggttgat aaggaagtgt 60  
 caacatgaga aaatgggtcat atttgcttag ccaatcaacc accaccatga tagcattttt 120  
 cccttgatgat gttggcaacc cctcactaaa gtcaatggta acatcctccc acccttgatc 180  
 tggaattgca agaggttgta tcaaaccaac tggcttctgg gtttcatatt tatttactta 240  
 ngaaggcaat tgaatgttta tcttngaga gcaccgcacc tatcacaata tcacttgcac 300  
 ctgtttttac agtgaatggg caagaaaatt tgacatgaca aatgttggtg tagacatcat 360

agttgtcttt aactcttcaa aagccttgga agatgactct atccaag

407

<210> 32147  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 32147

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tttatactgt cagcttcata cagaataaat atgaacataa atctggttaga tagaaataaa 120  
tgtgaaatat atatcttttt ttaaaaaaag aactaaccat cgcaatagtg tcttctacat 180  
catccttggt tctgcctgcc agacgccttt ttaaggattc aagtgcactc ctaagcttct 240  
tcaaaagaac atgtttttcc aatgatgctg cctctctaag tctagcctaa acttcaccag 300  
catacaaaaa gctagttaaa acaggaacat caatctatta gtaaactatg aatataatca 360  
ttgggttattt cagttgcaaa ccatttacia taagaatct 399

<210> 32148  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 32148

agcttgaaat atgtgttcca ttaaaaaaga aaaaagtttg taatatgtga ttcttttggt 60  
atggtaatta ataataagta tagaataatt ttacattttg ttacttttat aattgatatg 120  
catattatta atatgttaaa aaaatagtat taaatatcaa gtgatccata aattattatg 180  
atgttacaaa aggattagta atatcatttt ataataatat taaataaaag taaaataata 240  
ttttaattaa aatatcttac aaattagtaa aaataaaatt attttaaaaa taatatagca 300  
ttattatgta aatttaattg ataaatttta aattatcata atagattaga ctaacagaaa 360  
aaactgtcaa acaaaacaaa acgaaacagt acaaatta 398

<210> 32149  
<211> 501  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 32149

aaacatggta ccagcttgag agttaatcaa aaaattaatg atgcatcttt gtttccgac 60

agtccatgca tcggacataa tagtacaacc atacttgacc cattgctccc tatggccttt 120

catcaaattt tcagtatatt caacttcctt cttcaagagt ggaactctga tgtcatgata 180

gctaggaatg ggcaaagtgt gcccatattg accaatggct gcaaccatgt tctcaaagct 240

tttcaattta atgaggttga atgacaaaacc tgcttgggtac caaaagcgag caatatgttg 300

atgcaccttc aatacttcat tcttatccat tgactctctt atgttcattt gcctcagcat 360

ctccattttt ctccgatnga ttgcattntc tggattctta cagaatntgt ccattgggtcc 420

tttttttagtc ccacactttg tctttgcact tgcagcagca ttacaagagt ccgcanactc 480

atcttcttca cttccatcac a 501

<210> 32150

<211> 397

<212> DNA

<213> Glycine max

<400> 32150

agcttggaag gtagtcatac ctcacaaaat gtatatatat gtgtatgttt aggtagaaag 60

ataccttgga tatgcatgta tgtagcaaaa aaatacttca caaaatatat atatatgtat 120

gttttaggtag aaagatacct tgaatatgca tgtatgtagc aaaaatactt cacaaaatat 180

atatatgtat gattaggtag caagatacct tggatatgca tgtatatagc aaaaatatct 240

caaaaaacat atatatgtat gtttagatat gcatatatat ataataaagg ttgtctagct 300

aaaaaaacaa catgcttttg aaaagagatg acttccaact cttctttgaa aaaatttgct 360

gatcataact agttcttgaa agaattgtgta tacacct 397

<210> 32151

<211> 526

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32151

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ggccatcaag ggatggctgt ttctccggga gcgacgcgtc cagctcaggg acgacgagta 120

tactgatttc caggaggaaa tagggcgccg gcggtgggca tcaactgggta ctcccatggc 180  
 caagtttgat ccagaaatag tccttgagtt ttatgccaat gcttggccaa cagaggaggg 240  
 cgtgcgtgac atgagatcct gngtaagggg tcaagtggatc ccgtttgatg ccgacgctat 300  
 cggccaactc ctaggatatc cgttggtggt ggaagagggc caggaatgtg agtatggcca 360  
 gaggaggaac cggctctgacg gggtcgatga ggaggccatc gccagctgc tatgtatacc 420  
 gggacaggat tntgcccgga ctgctgcang gaggcgagtg cgaatcatgc gcaccaacat 480  
 gaccacnctg acccagatat ggatgaaggg tgctctcagc aacatc 526

<210> 32152  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32152

agcttcttat ccaatgctca tcttggtggt gaagctcctt ctcccatggt ttattcccta 60  
 gtggatggcg cctcctctca aagagcttaa gggagtagt aatgggatca tcggcgggcta 120  
 tcgtaaagtg gctaagagtc cgcacacaag gcttggaactg gctcccaaag ccaagggcta 180  
 tgagagagga agaggccgaa gctccagaaa agagtgagga ggtacaagcc ttanaggcag 240  
 agcttgagaa ggcttaagca gtcaaggaga agttcaagtc aacaaccatc aaagtccaaa 300  
 aggagtatga tgaactgaag gacattaaca tggccaccac cgaagccttg gaacaggaaa 360  
 ccaagagggc ccggaaggaa gaacatggcc aaaacaagtt ccgagga 407

<210> 32153  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32153

tgtgttttgt atatttctat tctcgtttca tttacttttt ataccctcctc ttgacgtgct 60  
 taagccattt tacttaagtc atttctcgct taacctaaaa ataaaataaa tttctaccga 120  
 tcgtttgaat tgtattatcc gttaacttcg gttaaaatga attccaaccg ttcggctcgtg 180  
 ccataaccac gttggaatc aaaaaagagg taaataataa tataataatc aaaataacat 240

cttttaggta aaataaagcg gaaaatcaat cggacatttt ctctttggga tttctcattc 300  
 ttaaccgaat tgactaataa ctaaagtga actaaggcta aaatcaactc gcctagtcaa 360  
 gctcgtccat aaaaataggt tttttgaagt ttgtcatttc aatttcttac taagtaaagt 420  
 gatcgttntt caagggtccaa cgccttanaa tgatcacctt anataanaag aatcacttga 480  
 taagaaagaa ctacgt 496

<210> 32154  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 32154

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 acaatagcat aatttcttgc actgaattgt gagttggaaa ccatcttctc aatcaaattc 120  
 ctagcctcag caagggtcat atcaccaaga gctccaccat tggcaacatc aatcatactc 180  
 ctctccatgt tgctaagtcc cttatagaaa tattgaagaa ggagttgctc aaaaatctag 240  
 tggtgaggaa agcttgaca taatttcttg aatctttccc agtactcata caagttttct 300  
 ccactaagtt gcctgatgcc tgaaatgtct tttctgatgg cagtggctct agatgtaggg 360  
 aagaatttct ccaagaacac cctcttaagg tcatcccagc ta 402

<210> 32155  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32155

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 aattgtgaag agtcatatcc tttcataaaa agctttgtgt aatcgattac atggttttgg 120  
 taattgatta ccagtgacaa gttttgaata aaaatcaaaa gatataattc ttccaatggt 180  
 tttcaggttt ttctaggtgg caaccacctc ctccgttttg tttaaaaatg ggcttccggg 240  
 acaccgtaa tgctttcgta aaattcccat aatcctaaat aagcatattt catttaaaac 300  
 gggtgagaag gaagagaaaa aagaataaaa tcaagttcta taggcttccg taacttttcc 360

gtanattacg aaagaaggag ggtgaactta tcanaatagg ggggtgcaa at agcaat 416

<210> 32156  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 32156

agctttgttt attggtcttc accgcgaaag gatcgaattg ggtctgaaaa gaggaaaatt 60  
taa atcatcc tgcttgacg aatgagaaaa ctggggcaaa tgaaaagggt gagaatgaaa 120  
gagaaaccca tgttgcaat gtcattccta catggccaaa cttcccacca gcccaacaat 180  
gtcattactc aaccaatata agctcttctc attaccaccc acccagtcac ccacaaaggc 240  
cattcctaaa tcaattacaa cgctgtcta ccgcacgccc aatgcccaaa caccaccttt 300  
agcga aaacc aaaaaggat tttgcagcac aaagcctgta ggattcacc caccattccg 360  
tgtcatatgc taaccttgct ccatactac tcgataatgc aatgg 405

<210> 32157  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32157

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gtcatatgct aacttgctcc catatctact tgataatgca atggtagcca taaccctgc 120  
taggttcctt caaaccccca tttttctgag gatatgactc gaacgcaaca tgtgcatatc 180  
gtggagggcc ctgcggcatt ccattgagca ctgtatgacc ctcaagcgta aggtgtaagg 240  
tctaattgat gcgggctggc tgaaatttga ggagaatcgc gtgtaaatcc tgacattgac 300  
aagagatgcc acacatgggg caattntgaa agctgttgtt agatgtctct aatgactcat 360  
caggattttc aggtgcgagc cattgggtttg tttgctcgag cgacatgcgc tctgagtgc 420  
tgacttccaa gaccgttcaa tcagagatta ctcgtc 456

<210> 32158  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32158

agcttgatt taaatggacc aaaaccttat gatcagttct tganagtctg attagtctgt 60  
gttagtctgt tactagcagt caagttaatt agaaaataac tgacaggcaa ctgtgttagt 120  
ctgttacaag cagtcaaact caacaactaa gacatcttca cccattttgt gatcagtttt 180  
tgacatacct taatgttaag tctgattaca tattattaat aatattcatt tttgcattta 240  
aagaaaacaa atcaacaccc gtttttgacc aaaacctttc accaccatag caatgaaaaa 300  
agtatactaa aatttagtgc cactagcaaa gtaaaggagg gtacgttgaa naggtacaac 360  
aaaattacaa atttacaatg aagtaagtaa tttatcctct 400

<210> 32159  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 32159  
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caatgatgat tataaaagggt gcatgcatgt tatgttgcat gtgaatctag tttaagacca 120  
tgcaataatg caaacaagta tacatttcaa ctaaaatgct accatgaaat gtttataagc 180  
caattaagaa aatgcaagct caccaattgc atcaacagtg gtttttccat tggaaaacct 240  
tccagaaggt ccaccaggga agtcaatccc ataaggcaag taatcagccc tagccaaaga 300  
ttggagctgg ttgttggtcc cattatcaac caaagaatca ccaaaaatga agtagcatgg 360  
aacttgtygc gcaccttgaa caccacccca caagccaaga gaaacaacaa caactatgag 420  
tgccaacatg cttattgtga gat 443

<210> 32160  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32160

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ttctctctcc cctattttcg ttttctagtt ttaggctttt tctttgagac atttttctgt 120

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<400> 32161

<210>	32162
<211>	387
<212>	DNA
<213>	Glycine max

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actagctatt	ttgaattctt	tagttcctga	atgtacaacc	ttcaaattgt	tgcttggtcc	120
cctctttctg	ttctgcaaaa	aagaaaatca	aatgttgtca	aaacattgat	gaagtcctaa	180
gaaaatcaat	atcaaagaaa	acatggatga	aatcacaaat	aaaaagcaca	actacctatc	240
tttcaaagtc	ctttggttaa	tttgttttgt	cttccttatgt	ggcgggggctt	tgtttaataa	300

tcttatactt ttgccttcca aaacaaacta atcactaatc ctctnttcat taatccaatt 360  
ctgtatgtca ttgtataaaa gatcatg 387

<210> 32163  
<211> 540  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32163

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gagaattgtc atgggttatta ttactcgaac ctgaaggaat aacatctaaa caagtcattt 180  
tatncttaga aggggaaaac tctgcatatt tatggaaaac atgggggtatg gaggcaagta 240  
agcatgtgaa taccacaagt cattttctcc aattcaaggg cttgattaat tgctctagga 300  
aaaaagcata catctggtat attgtttggg ttgcagctgt ttggagcatt tggcagaaca 360  
gaaatttcgg tttacgttgg gttgaccatg ttcactgggt aacctattgt cacttatact 420  
cttatntatg cttgaagata acacctatca gtagatgctc atattagtcc ttgagatagt 480  
aagtattaat aattgctnta gcttctgact ttgtacatgc tttttagttg atactaatat 540

<210> 32164  
<211> 265  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32164

agcttcaatg ttaatgncac atcacataac ggcaaaaacc atatcacatt atggacatct 60  
tgcgatggta ttgtaagcga catccttggc cagagtgggt ctgattggga tggcactaac 120  
cacatgatca ccagcgagaa tgaaaatgct tggaatgaat attgcattgc aattcttctt 180  
taatataattg ctatctgcta ttcaaagcac actgcatcag actgtctctt tttctttcta 240  
ctcgcatccc tcacctaaac tgttt 265

<210> 32165  
<211> 527  
<212> DNA

**Q**ueen's University  
King's College London  
University of Cambridge  
University of Oxford  
University of York  
University of Manchester  
University of Liverpool  
University of Nottingham  
University of Leeds  
University of Sheffield  
University of Bristol  
University of Exeter  
University of Gloucestershire  
University of Huddersfield  
University of Hull  
University of Lincoln  
University of Northumbria  
University of Salford  
University of South Wales  
University of Teesside  
University of Walsley  
University of West of England  
University of Worcester  
University of Wolverhampton  
University of Wrexham  
University of York

<400> 32165

aataaagcaa gttattgaca cagcttctcc ccaaaaatac ttaggcaatt tcttgccctt	60
taacatgctt ctcaccatgt tcatgatagt tctgttcctt ctttcagcca ccccatgtgt	120
ttgggggtgta taaggagtag gtacttcatg aagcatccct tcatcacaat tatttttgaa	180
agtcatgtga agtatattca gctccacatc tgtccttata accttaatta cctttccact	240
ttgtttttca cacatcaatt tagacttctt aaaaacaaac aacacttcac tctttctttn	300
taatagataa atctacatca tccttgtagt ttcacatg aaggatacga agtacctggt	360
acctccaaga gactggatct canaggggcc acacacatct tatttgatag tgagagtgag	420
agagacattn tagagagaan aactgatatc atttcattct aaaaagttag ttacaaagag	480
gtatatatag acctctaaac ctctgaacta agcanacaga aacaacc	527

<211> 394

<212> DNA

<213> Glycine max

<400> 32166

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agctcccttt	gcggattggc	ttcgtaactg	attcatcgta	ttgttcacta	agagaagcag	120
gattatacat	ttttaacagt	ataaatatat	tcattaatta	catattttaa	tgttttttatt	180
ttaaatttta	tttttataaa	attaaaattt	agtatgtgca	atgcatggac	taaaatgata	240
gtttctatgc	aatctctatt	aaattaaaatc	ataaaacaat	ttggaccagt	aattattatt	300
acattaaatt	aattagtaag	tatttgccaa	tttttaatta	aaggatatatt	cattttttttt	360
tctacacggc	ttattcaatt	cgaattctaa	aaat			394

<211> 497

<212> DNA

<213> Glycine max

<400> 32167

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attactttgg gttatatatta aatgttttga tgatttaaga gtgaattttt aatttagctg 120  
 cagtattttt tttaaaacaa tacttccttc actactacaa aagaggttca aagacgggta 180  
 taacaccctt tccatgacgg ttttgaaccg tctttgaaat cactgtcgtg gcaaataaac 240  
 acttttcacg atgattttta aatcgtctta gaatcttgaa ttttatatta gttttcatag 300  
 aaaccatttt tgaatgtctt tttttaattt cctttacaaa tgtaaaaaaa ataaaggatt 360  
 tgaagacagt tgtctaaaaa attgtcttag aaagtcactt tctaggataa ttctctagag 420  
 aaccgtctta gaaagtacag tttttaagat gggtatttgg acaaccgtat agaaactcta 480  
 ctttataaga agagttt 497

<210> 32168  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32168

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 agccacttga cgaaaaaagg ggtcgcactt ctaattcttt atgtttaggt gagttgagag 120  
 agtgagtgac cagtgcggcg tggaccaaag atcatggagt tttattgtcc aacggattat 180  
 aagattttgc acatctaatt ggtattaagg gattttatga caataagcta attaacatac 240  
 gtaatcatgt acgttaccta catcaccatg taatctanat caatcatgca caatgttaat 300  
 ttacacagcg tgaatttata ttgcctaata cttcatagcg cacaaattaa attctaata 360  
 aacttacact ctactaact 379

<210> 32169  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32169

agagggggga gcacgacatt gaaggaagaa aaaaaggagg agaagttgaa ctttgagttg 60  
 tgtctcccaa gactctcatt catcaaagtt accacaagtg ttacacatgc ttctatttat 120  
 agactaggta gcttccttga gaagttttct tgagaaaact tccttgagaa gcttctttga 180

gaaaacttcc ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac 240  
 ctcttgaga agcttcctta agaagattcc taaagaagct agagcttagc tacacatacc 300  
 tctctaatag ctaagctcac ctcttgaga tgagaagcta gaacttagct acacaccccc 360  
 tataatagct aagctcacc ctatgacaaa gaacatgaaa atacanacaa agtccttact 420  
 acaaagacta ctcanaatgc cccgaatata aggetaagac cctatactac tagatggcca 480  
 catacaaggc ccaatccaat tcgctttctt tttegancac gagcagtgc c 531

<210> 32170  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 32170  
 ttgctttatt tatgaattat tggtagaaag agggcattca cttgtcagaa atgagagtga 60  
 aaaaggaag gagaaagtct ggaataaggt agaattgagt ggatattgga ttacgtgaga 120  
 gaaaacgggt ccttgaagaa catgtttcat ttggatttac ctcgtgtttt tttccagat 180  
 cagagaatga ggcttgcata atttagtgtg catcagatac attttaccaa attatggagt 240  
 gtcttaaaaa tagtatatta gaatgtatcg ttagcatttc tcttactgtt ttaaccagga 300  
 acagcaatac accttagct atttctctta ctgttttaac caggaacagc aatacacctt 360  
 tagcgataat attattcttc tgctctaagg acaaaaataa ttat 404

<210> 32171  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32171

catcttcctt tgatcaaggt gtcaaaatga gaaagatagc taagaacgtg gttgatatcg 60  
 aggcttccaa ggaaccttag aacttcatca tcaagccatc actccaagca caaccctatt 120  
 cggcgtcgag gaaagaatca tccacttaag gaaggatttc cccttattac cttggaaggg 180  
 aaacacttgg ggtaaaaggc gaggtagggc ctatttggtg gggaataaat gtgtatgccc 240  
 aagatcta atcatcatgtt atcaatttta gtaaaatatt gttctttatt ttattatcat 300

atttattgat ttattaaatt gtcaatttga caagactttg attaaaatta gagacttgct 360  
 atcatgataa agattatgat aatgaacaac aagtccttta taattntaat ctaaattggt 420  
 tttactcata cgaatattgt gaatacgaca tcaataattc ggcataatca atatatatat 480  
 atatatatat atatatatat atatatatat atatatatat ggcaggggct ttattggata 540  
 caacatagta gatcc 555

<210> 32172  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32172

tagcttctag ccaaattggac ttaccttgaa ttaattcctt tgatagccct tttgagcctt 60  
 ggtttccttt ccttgtnttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120  
 catatcctta aggaattttg gagcttttga attgttttgg gaataagtgt ggggggtttt 180  
 tgtttcattg gacaacttgt tttgttggct atgcttcatg atgtattttg ggccatactt 240  
 gatgtacatt gtatattggt taaatgttgg acatgctgaa tgaaatgttg tttctcacag 300  
 gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttcgaacaaa aaaaaaacaa aaaaaaagc 360  
 aataaagttg agtgaataag atctttaat 389

<210> 32173  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32173

gagacatttt tttttaatcc tcccccaaatt taggagcata tcataactaa gatctttatg 60  
 ctctcttaaa ccttagaaaa aggtaggaga taattaaagt aggcttaagg gttttacaaa 120  
 aaaacacgat taccattttt ggctcaaata aggagcaagg gataaactat tatcaaaggt 180  
 tggctntttg gctaagtggc taaaataaaa agaaacatgg ccttgatcat atccacctta 240  
 tgcaaataat ctaacagtct aagaatgata caaaattagg aatntaaaaa caaacgttct 300  
 ctcataatta agttcacaca gctcaccggg acaagataaa gttattggct taccggacca 360

tgatctcttt ccatcaagct aaccttttct ctctttgtga ttcattgtcc actggttgac 420  
 tgactcttgc ttccaagaaa ccagtatttt cacaattggg tatgcagcat tcaagtgttg 480  
 aatcct 486

<210> 32174  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32174

tagctttctc ggggccattc ctgcgaaggc aaacatttgg aaagttagtt cttaccaaca 60  
 aatgctaccc ttanaacaaa aatggcatac acaccccttc aataaatata aacatcaatg 120  
 taaatttaga gcaagcttat gcgcatactt cttcacgaac gttcacttgc acaagacatt 180  
 cttataacta agacaaatgc acccatatac aatcaaggca ctttcgttac ctagattatn 240  
 tacatgtacn ttccaggtgt atctgggtacc tacatcacac acatttnctt tgcctaattc 300  
 acatacatgc atactctaag cacttttgct ataaaaaatg catacgtgca catctttgta 360  
 tttctaataa ctata 375

<210> 32175  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32175

acggcccaat aagcacggtg ctcaatctcc actggaaggt ggcattgcctt accaaaaacc 60  
 atcctataag gagaaatcct caaaggtggt tggtaagcgg tctgtgagc ccatagagca 120  
 tcttcaagta gctttctcta atcctttatg ttgggttgca ctaccttttg caacacttgc 180  
 ttgatctctc tttgtgctgc tggggcatct catgcctata tgcaatagtc ctttcgctc 240  
 tctaaaattg ctcaaatg gtagaaaaat gatgagcatc tctaaaaatg gtgggccaat 300  
 agaaccaca atccaatacc ttcttagtgg tctactgagg accaaaatga ctgcgggtag 360  
 gtgtgccatg aaaaaactga naaatagatt gaatctcatg atttggcaca catctgcgga 420  
 tcacttggtc actaccaaac cttgaaaaat aaggatcatc ccacacataa tctttagcat 480

<210> 32176  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<400> 32176

agcttggctc ccttggtgcc tagcgagct aggatgctat ctctaaaagc taccgccttc 60  
 tggatgaaca tcttgaagg cccaagtagc ccacgtgct attggcacc cctatgtact 120  
 aaatacacgc ctaccttaat tgatgattgt ttttatgacc tgatgtattc acatggtacg 180  
 tgcaagatgc gttaagagca taccacttat cgaaaagggg atggtagatc ttatcgggag 240  
 ttattacagc catcctgtcg gcgatgatgg ac 272

<210> 32177  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 32177

aatcatccaa atatcgagaa ggacaagtcc tccataacaa taacagcatg tccctccctt 60  
 gcacaatgct gctggctcta gcaagccata tggtcctgct ccaatgcac accgactgag 120  
 acaacacgct gctgaagccc ctcttaacc ttacttagaa gagtcagtga ggcaaatgtt 180  
 catccagaat atgagatctc aacagcagac aagagcctgc attcagagtc tgacaaatca 240  
 gatggcgag atggctactc actcaaacca agctgagtc caaaattctg acaaactgcc 300  
 ttcacaaact atgcagaatc tgaagaatgt gagt 334

<210> 32178  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32178

agcttgttgt ttatgcagac acgttaccat catgttgcg ngttggtttc attgcaacac 60  
 cgttttgttt ctgagcccga ggttcaaggg cccaaggttg cgtttctctt cattgcacgg 120  
 aacaggctcc ctttggaat ggtttngat gctttcttta ggttactttc ttttctctt 180

tagttgttat tgatctctat atctttggga ttagtagtgt atgcaaata caatataaag 240  
 agtttttacg ctgttatcca atcataatcc atatgataag tttgttgact tttacaatgg 300  
 ttagtttacc aacaatgggt tctaattgat tgatattgta aatattttct acatttatag 360  
 tgcgtaaaat taaactcaaa tatgcttgct tgtgtgtgtg tg 402

<210> 32179  
 <211> 526  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32179

actagatttt taccaataac catttgtatt ttggtgttat taaaagagta taatgggtcca 60  
 tcagattcga attttgaact cttttccacc aatatgatta ttttatcaag actatcgtat 120  
 ctttaaaaaa tccttatttt tttttttgtt caaaacttac tagacatgca atgaaaagtt 180  
 ggatcggggc gatgcagcca cggttgaata cacgatccaa cacagaacaa cttgccactt 240  
 gctccccctc acgacgctta accatgggtca acaattcatg ttcaagtccc taaccatgggt 300  
 cacacgcca acctaacca accctttcat ttcccttcaa aattaatata caccttctga 360  
 atcctataaa taaccactt tcattcattg tagtttccct cttcttccct ctctttcggt 420  
 cctccttttt ttcacttttc gcccccttta cgaagcgcg cgttagtctc tgcgacccga 480  
 aatcngaac ccgaattgggt tcaatctccg agagagagag agagag 526

<210> 32180  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 32180

agctttgggt ttgttgactc gctccaatgg ctcatcatgt cttctattga acctttcttc 60  
 atacgctcga agagaaccca tcaattgggt taagggtcatt gagtctaaat ccttagactc 120  
 ttcaatagca caaacacat aatcaaattt agcgattgaag gagcgaagga tcttttccac 180  
 cacacgaaca tcttccatat tttctccata acgcttcatt tgggtcacia tagccaacac 240  
 cttgttgcca aaatctgaga tagattcaga ttccctcata tgcaatgatt caaactctct 300



<210> 32183  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32183

gatggatctt atatatctat atatctatag atagatatat agatatagat atatatagat 60  
agatcataca atgaagtacc gcacgagtgg gtatatagga atccaaatct gccgaatcac 120  
tcatgttatg atcttctaca tcttaggtct tcccgttctt tcatctggct tatgttcttc 180  
atgtagcatt cagactgaat gactctatga aattacgtcg ctacttccac atggtacggg 240  
taacgtagga gacatctcta tttttcccg ggggaatcct tagaattacc acagcttagc 300  
tntcaattcg cctctgacca tcaaataaaa tgtgaataac ccgtcctccc ctctntgaaa 360  
ctntgaaaca aaggggtgctt ccggttctgt cgggtgctga aacaattnta gtcttctcat 420  
attactatat ctcgagagtc acataattta tatgaggaac tactgaactc aatca 475

<210> 32184  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32184

agcttttctcg tacctcaatc agcaatactg caactgaaga cgtattatta ttattatcat 60  
caataaaaca tgaacaccca cgaaaacata gcatacacga agttgaccta cgtacctcgc 120  
ggagaaagct ntgagctntg agcaccacag agtggttctag caccctagta ccaagagtgt 180  
atgtaaagtt tcttcgagcc acactttcaa gagcagtgtg gggggttctg taggttcgag 240  
cgagggggtt ccggcagtat tgaaaacaat gtgggacaat gtgggtgtcg agggagcggg 300  
ttctggcaga tttcaggcgg gaggagaaag agaacagcga ctgcaagggt ttcgagcgca 360  
cgggttggtga aatgccaatg ttntaactta taaacataac aacatc 406

<210> 32185  
<211> 522  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32185

acgtcatgga agcgttacga aagcgtctcg gcttgattt tttccttctt tcgtcttttc 60  
ctcactaatt ntaagtgaat tatgagtgcc aaagatgctt aacctttttt cctcagcccc 120  
ttacaccatt ttatagcaaa aatgagggag gtggttgccg cctagctcgc ccaggcgagc 180  
taggtagctt cgcctgaag taaccttctt ccaaaatatt ccagatgggc ccagggctag 240  
gtacaccccc caaattgatt agttcacccc ttattttttg tttttggctg atttcctttc 300  
gaaacatcgc gaaactttat ggattacgcg acgatgagtg ttaagcatct caacttggtc 360  
agcaaaggtc cgcattgtga caaaaaattg tccctgatg aaattagggt atgacagttg 420  
cccctctnnt acttatgttt attggagata aaagggaagt aaaggtaaga cactaatttc 480  
gttcgagctt gaaactcacc cgaccgacca atagctcaat ca 522

<210> 32186  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32186

ttgcttgaag acttgtagat gaccaaactt ctggttaaatt gattcttgat cttgaaaaca 60  
ttgttggtat tattgaggat gaagatcaag ccttactgtt attgtgtgat ctacttaaga 120  
cctttgtctc tttcaaagaa acacttctct atggaagaga ttctctcact cttggttgaag 180  
tccaatcagc cttgaactct aagggattaa atgaaagaaa tgaacaaaga ctttctgtac 240  
acgngagag actcagctcg tggaagacaa tataagaagg atgataaggc agaagggaaa 300  
agatccaagt cacaagctcg atctggatct aatgtaccaa acattagatg ttaccactat 360  
aaaagagaag gccatactcg gagattntgt cctgatagac ac 402

<210> 32187  
<211> 525  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32187

gatgatcgtg caaaatggat agaattaaat gatttaataa aagttggtgc agtgggaagc 60





ctcgaaattg aatgttgaag ctctgagcca attcaaacga caataactnt ttactcggat 360  
gtctgattga gtcccgtaac atatcgagac gctcgaaatt gaatgttgaa gctctcagcc 420  
aattcanacg acaataactn tntactcgga tgtctgattg agtc 464

<210> 32192  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 32192

ggtttgtttc ttatgttgga tttttttttc ttctcattgt tgttttaagt gcaattcata 60  
tatagttgac gcattaaata aaaatctaag tttgattaaa aatcattatt ttctatcaat 120  
atatgtcatt ttttttagta ttgctcgcgt gcatagaagg ctcaatttta tgcttatcca 180  
gtcgtctgct ttcaaccatc aagtacaaac attttgaatc cttttgtatg tttacgtcca 240  
aaacatcatt ttactctagt taaacaatgg atgctttttc cttttccct ttctctttcg 300  
ttatcattat tagctagggt tggttgccag ctgattattg cttctat 347

<210> 32193  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32193

aacacgcaca cacacgtctg tgttttcttg atcttaaaga ttgtagtaac aagtgtttta 60  
ggccaattgt aggttttaac taaattatc ttcgcaattg atgatgtaa tatgaactgg 120  
aatcagcaag ttggtcattt tacactatc cacacgaatg gaatggaagc atacaaatgt 180  
gttaaattta aatattgatc agctgacaat ttttatataa cccatattca tagcaaatac 240  
taaaagtcag actaaagaag ttagtactca gtagacattc tattaagcaa aaaataatca 300  
ctggccaaaa ttaataacat taactaccat gcactntttt gttcagggaa tgatgaacag 360  
cagatagatt ggaaacagtg ttgtggacaa agaannatnt agcttttcaa gatcatcaga 420  
aaaaagtaca ttcagactgg atgtccttat c 451

<210> 32194  
<211> 398

[illegible]

ttgttagctt	atattattct	atgaaaagaa	tggtatcttc	cacaacttct	catcactgag	60
aacacctaca	canaatggng	tagttgaaag	gaaaaataga	actttgcaag	aaatggtagg	120
accatgcttt	gcacaatctc	actaactaaa	aacttttggg	cagcaacaat	aaacacaact	180
tgctatgttc	aaaatagaat	atggtaagac	attgattaaa	aagactcctt	atgaactgtg	240
gatggaagat	gacctaacat	ttcatacttt	catccatttg	gatgtaagtg	ttttatcctt	300
aatccaagaa	atgaactcgc	aaagtttggg	ttagaggtgg	ataaagggtat	cttcctagga	360
tattctgaca	tatctaaagc	tttcagagtg	gttaactc			398

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<223>      unsure at all n locations
<400>      32195
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gggcagcaat	actactaact	tgactgtagt	gtgcttgat	gtagatgact	tgcttgtgac	60
acgaaataat	gagactgaga	ttgccaaactn	taaaggagag	atgataagag	agttcgaaat	120
gactgatttg	gaccttattt	cttattttct	tggaattgaa	ttcaagagaa	ctaattggggg	180
agtgatcatg	aatcaaggga	ggtatgaaaag	agatgtactg	aagaagttca	gaatgggttga	240
ctgcaattnt	gcagacacac	ccactgccac	tggtgtgaac	ttggtgaaaag	atcctaata	300
agaagaagta	gatgtaacat	tgtatagaca	aatgggtgggc	tcactgaggt	atctntgttg	360
tactagacct	aacttatttg	atggtgntgg	cttaattagt	agatatatgg	agaatcttga	420
ac						422

<400>	32196
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agcttccttc tgcgtcggcg aagagtagta ggagcgattc tgagaggagg atcgacacac 60

70

<400> 32197

<400>	32198
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<223>      unsure at all n locations
<400>      32199
```

13426

tataaacaat tattacatca agcatattga ttaattacta tgc

403

<210> 32200  
<211> 63  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32200

tgcttgngct tcaagtttcc atacataggc ggagagggtga agtgatcaag gtatcagaca 60

ctg 63

<210> 32201  
<211> 231  
<212> DNA  
<213> Glycine max

<400> 32201

tcaccaataa caatgcacag attcaccagt aatggaacgc ttcagaagat aaaaaggat 60

atgtcgatgc cctaagtact ggatgaaatg gactatgtat ctcacgatct cagggatgcc 120

tgtcagatgg atagcctcta accataccct acattgagca tgcacacaac tagatgcgtt 180

atcatgtaca tacacgcgca cgtatgaata catgtaccct cacatgatat c 231

<210> 32202  
<211> 153  
<212> DNA  
<213> Glycine max

<400> 32202

aactgacttc gcactgcctc tctcaagttt caagctcctt accctgtttt gctcaataag 60

ccacctgatt acaccttttt gaggaactct ggatgctctc gctatccttt tcttagacct 120

tataacaaac acaaccttga gtttagcccc cat 153

<210> 32203  
<211> 233  
<212> DNA  
<213> Glycine max

<400> 32203

cagattagca tgaacctaat ttccatattg cctagaaatt tgaacaacta ttggccatca 60

acaccacaga ccataacgat aaaagccttt gacaattaaa aaaaatacaa aaataaaaata 120  
 caaagcagca gcaacttagc atgtagtata acataagctt gacaaataaa aatacactat 180  
 ggaatacaac tatttccaaa tactgaacaa ttatcaagat taacctgaat cta 233

<210> 32204  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32204

aggaatcana ctcatgacta ggaacccacg tttgctttat gagctagaaa aacatgcact 60  
 ctgcgatcgc tatgcagacg acttgatcag agtaaaccatg aacatacatt tctcatatcc 120  
 tttgaaggtc caaccatctc tttttttcac ttcatatcta aactgactac tcgcgectac 180  
 acatctatcc ttgccctgcc tccatacgcc tacataggat catgtattct gtaatttatg 240  
 actaatcatg attctctgtg atcttgctct ctaagtaatc ctaacttact ggatacaaaa 300  
 ctattaagca gacatattta ttatccctat aattcttatt gtttgccgtc aacactcaca 360  
 ttaatgtag agaaccctcc taggagcctt atcctgcgaa actattcgac aacgacgcac 420  
 ccttccaaat ttagcttgac accttctaata tactacggta cacgccccg 469

<210> 32205  
 <211> 65  
 <212> DNA  
 <213> Glycine max

<400> 32205

agctgcaccg ggatccttag agcgacctga ggatgtagtt tatatgaaag aatgattcac 60  
 gcaaa 65

<210> 32206  
 <211> 116  
 <212> DNA  
 <213> Glycine max

<400> 32206

aagacatatt ggattggaga tcatgtttgg aacaatctgc tatcacattg gaatgcacct 60

aagtatcggt tcaagtgtgc atgagcaaaa aaacacaaca tcaagcatct gaacag 116

<210> 32207  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 32207

atcatcggca tgagattgga gagaatcaga ggtaaagaat tggaaacaga taaatggtgg 60  
gagcttcaac ttctaaactg tgaatttctg ttacaacctt acacagattc agttgtttac 120  
cttacagttg gacaggtggg attaacgaca atgttaacac gtgcaattat ggtgtttcag 180  
ttcttcatgt aaaaataata aactgcagt ggacatcaat gtcgtttctca attaaaatgc 240  
cctttttcat aggaacatgt tgggtccattt tctacctatt agaaatcatc ttgtatataa 300  
cttttaaagt catcattata aaatatgaat aatattctct taacaaaata atattctcct 360  
acaagataat atata 375

<210> 32208  
<211> 143  
<212> DNA  
<213> Glycine max

<400> 32208

agcttatact ttattataat ctatagtgtc gaactgtggt ttaatcacta cgaggcccaa 60  
ttccatattt atcgttttat ttaatcaaaa aactaaaatt ctcattttac aaacacacat 120  
tacaaattta atcgataaac ata 143

<210> 32209  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 32209

gctcctatga gggtatcttg acttctaagc ctttctctta tttgatcggt ttctctcttag 60  
tgctctctgt atgttgggaa ctgtcgcaac ctacctttt gcgggagagt gacgcgaggc 120  
tcacgggtgt gtcttccatg ggaggaaaat gtgcggagtc gccaccaacg tttattgaaa 180  
ggaaaacatt ggaaaaacca aaggaaactg gtcataaaga atattccaga ttcaggagtt 240

**Figure 1**

<400> 32210

<210>	32211
<211>	485
<212>	DNA
<213>	Glycine max

ccgcggtttg	agcgttgata	acgtgcctac	gagaactgac	gctaattngcg	caggataaatt	60
gatagttatg	ctcttcatta	tgagtgcgct	ctatgactaa	ccaaacacag	tatatgaact	120
agtcatggct	tactatngta	ctctctatcg	gataccggac	gataatacta	taattatcat	180
gaagactttc	tttcgacatg	gactatagcg	tttttatgat	ctagtcatta	tgcacagtcg	240
tgcctatcat	tgtgactaag	actagagtag	agattgcgca	ctatacatcg	cacaaattct	300
gcacatacga	ttgctaaaca	ttcaataatt	atcacatgaa	tgaaaattgc	acaattgaaa	360
tactatatga	tccgacttta	cataatgata	atagtatgca	agatgcaaga	ttgaagaacg	420
tgtatgacaa	ctcgtgtgca	agaatgctat	tactctataa	tcatacaggc	gaaattatac	480
gatgg						485

<210> 32212  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32212

agtttgtatt ttggttcaag cctacatgag gntcaatact ttggttttgg gaaaagctac 60  
 ttattgctga aaatcaatac aacttggtca acactcntcc cactcaatct catacatgaa 120  
 ccacagacaa ctttttccga tcttattttg ctactatatt ctctgatttg aaatatgttt 180  
 atcatgttgt ccactattct ggcgttataa attcatctgt ctctactaaa caccatatca 240  
 tgtctcacc ctttcgcatc attaaatg 268

<210> 32213  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 32213

catctctggt ttatgtggct tacatcaaga cttttatcgg gtgcttgtgt aagcacagga 60  
 ttactatttc acaccctctc taatgcgaat taccaatgag catcaattct aacataccgt 120  
 gtgccaatTT ttaagaaccc ccattgcact tgctcttaca ctactctta tactctgttt 180  
 ataataaagt ttactgata aaaaatacca acgtgactta gctcatttag actatacacc 240  
 cgaggataca ctgagctcta agcccaattg taaaaactac caactggact aaatgcgatg 300  
 ctacgaa 307

<210> 32214  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32214

cgccgagtga gtctgacatc aagtcattgg atctcgcacc ngcggattct ctanagtcta 60  
 catgcaggca tgcacatttg tacttttaaa cnatctcttt cataggttga gggttgctctt 120  
 agattgcctg tgctgtaca ttattacatg ctaacgctgg atcacgaact tgccatcgac 180  
 aactgatta caaatcaaT ctcggtcctt aaaatctagt taacaaccaa ccattacatc 240

ttgcatacag tgcttaaacg ccatcacttc gactacttat gcttttcacc agatcgtagc 300  
 attctcgcta tcatgactaa aaaattatgg aaaatgaacc aattacgtaa acatatgcat 360  
 ggccatggct acagcgcgca ctccacccat cctaagaccc ctctgtactt acatccgttg 420  
 actgcccgtg caactggtcc aaaaacgaaa aac 453

<210> 32215  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 32215

gttcgggaga caaatgttaa gcgttctoga tatgcgaaga tgatattccg agtactttgg 60  
 atttggtacg accatgctct cctgatttcc agctgggaaa ttggcgagtg gaggaacgcc 120  
 ccggcattta cgcaacaagc ataatgtaaa cctttacggg ttttaaaagc tctatagttg 180  
 ggcctaggct ttagagtttt cattttgtta aggctttgtg tcttttggtt ttgaatttat 240  
 aatacaagga tctttcttca tctgttctcg gtctctaccc attctcattc atttgcattg 300  
 ttacttcttt ttctgaaacg gcagatccga tgacgagtcg cccgaggtac taatacctgg 360  
 gacccgtcta tgcactttga gcacgaaatg 390

<210> 32216  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 32216

tagagaggaa gctctcaatg gaggaagata atgagagtta gagagagaga gaggcgtgga 60  
 aattaaagga ggatagggag agaagttgaa ctttgaagtg tgtctcatag tttctcattc 120  
 atcaaagtta tgacaagtcg tacacatggt tctacttata gcctatgtca ctaactaaat 180  
 gaaattcact ttgtgtttta tttttatttc atgtaaatct aaaaggaata ttccaagaat 240  
 atgccaaagg catcttaaca tattcccttt agatgacaca agcatggaag gtgtgactct 300  
 agcacatggg aagcttcctt gagaagcaag gaagatagct tccttgggaa gcaaggaaga 360  
 cagcttcctt aagaagctag agttagctac acataccctt ccaatagcta agctaacccc 420  
 catt 424

<210> 32217  
 <211> 209  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32217

agctttagt cgattactta catactgtaa tcgattacca gaggagtttt tcagaaaaca 60  
 ttctcaacag tcacatcttt ctgtgtggtt cttgaatggc tatcataggc ctatatatac 120  
 gtgacttgag acacgaatnt gacaagagtt ttgaacgaaa aaagtctcat cctcctaaaa 180  
 agcaaaattg ctttatcctc ttacaaatt 209

<210> 32218  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32218

atactccagc ttgatctctt tntcatttgt agtttactta tgaacatgt tgaagtttgt 60  
 ctctgttaaa tctatagact gcttgagca ccaatagaga ttactagtga taaatcttta 120  
 gggaaatttg taacatagat tcaattatat gtaggactag ggtcagatat agtcataaac 180  
 aaattgtctt ttggttcttt ggtagtagat cactgctttt ggaatgtttt ttttttgtc 240  
 agcaaaaata atatatattg atatatgagg gagtaccaga ggtaccataa atacaagagt 300  
 atgtaagtaa ggctggtaaa tcctcatatc aggctgaata caaactgata ggagcttact 360  
 agcctactaa caagtggcan aaattacaaa aaccacagct ggtgttacc t 411

<210> 32219  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 32219

tcaagcttct tatecaaggc tcactttgcg ggcgaagctc cttcttccat ggcttactcc 60  
 ctagtggatg gcgcctctc tcacctcttc tcctttgtct tctgctgcat ctccatgatg 120  
 gcaaatcact attaaaggac ctcatgaag ctcaaagatc cagcctccat acaagcccca 180

<210> 32220  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32220

caccgcctgc catgaacctg anttcgaatt ttcgaacncc ntttgaaant cgcggttttag 60  
 gagcttttat accttttata gcgcggtttt ggggagctct tgcgcgatct tcgaggggttc 120  
 ttttaactgac gtcctctgca gcactattct ctagaaactt ctcaggaagc tacctcctct 180  
 ataactagaa gcatgtgtaa cacattgtgt acctcttggt aatgacagcg ttggacacac 240  
 aactcaaagt ctaacttcat ctcccttttt tttccttctt gctccccccac tctattttct 300  
 ctacctctct cttttgctcc attgaagcat nctctccatc cttttattca cgactctctt 360  
 ggtggtgaat ctccctctct catggcctat ttcttactgg attgctccat ctctcaccta 420  
 ttttcctttg tttccgctga tatcaacgtg gaaatcatct tgc 463

<210> 32221  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32221

tatctaakat taaggtttat ttaatttggt tgacaattta tgtaataact ctatagacta 60  
 tagagtgttt gattaccgaa ccttaactac tactgaaaat tatattacaa caacctaaat 120  
 ttgtaaakat tatcttggtt attttttatg aggacacatg tattttatac ggaagaaaat 180  
 attgtgagtt acataaaaaa ttattattat aagagataaa agtttctctt tgaatattta 240  
 gcatataaat gtacactcaa agctcaaatt tggaatcaca tatgaattta gactagtcac 300  
 gagtaaatta atttatacat tccatgttaa aacaaattat catcataata tgaattattt 360  
 aatttcatat tataaatata ttaaatacta ttgcacgact tacccttgaa ctaattttta 420  
 cagattaacc g 431

<210> 32222

<211> 318  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32222  
  
 agcttatgac tgggtcaagtt cacatattca gaatgttttg aatatattta gttgtagtct 60  
 tgcggatgaa agaagtatgg ttcaagaaat gacacaagaa acaatttttg cagtcctcct 120  
 aagcaacctt agtcaattct ttagttagag ccgtgaattc aggaaaatat ctagcaaacc 180  
 agagttgaag gaaccaaaaa gggttgcccc ccgaccaatg ttttggcatg tattcattnt 240  
 ggtaatcatg ccaaaaagag aatcgtaaaa aggtgcaaga caatagggac ctatggcaac 300  
 tctcttgcca aacatggt 318

<210> 32223  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32223  
  
 tatgctgcag acatttatta tagttctact caacagctat ggcgcgaact tcagagtaat 60  
 tatgaccttt caagcaatag atacaatcca tggtggagga atcatccaaa tctgagatgg 120  
 acaagtcttg cacaacaaca tcagcatgtc cctcctttcc agaatgttgg aggtccaatc 180  
 aagccatatg ttctctctcc aatacagcaa cagtgacaac aaagacaaca tgcaactgaa 240  
 gctcctactt aacctttctt agaagagtta gtgaggaaaa tgaccattca aaatatgcaa 300  
 tttcagcaat agacaacagc ctccattcat agcttgacaa atcagatgga gcagatggct 360  
 acttagatga accaagctca gtcccaaaaat tctgacaaat tgccttcata aactg 415

<210> 32224  
 <211> 142  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32224  
  
 acaagcactg ccgcagtggg acaagacagt taatgagttt atgagcgact cacgattcac 60  
 aagatgtgac atggaccatt gctgctatgt taaaaaatat actaatagtt atgttatccc 120  
 ttgtgcgtat gctgatgaca tg 142

<210> 32225  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32225

tgggtgattt tctttttctc tggtatacaa atttatgttg tgtattgaga aacaaagttt 60  
 tagtctccat tggaggtaga tgtgggtttt tagttgttga ttttcaaact taaatttgaa 120  
 aacaaaaaat gtttgaataa aatgaggttg aaatggtttt taaataaatt ttaaaaccaa 180  
 cttagctcac ttttgaacac aagaaataaa agagttttgt agtttaagtt tttggaagtt 240  
 gtgtgggttt gatactttcc ttcacttttc tccaccttcc atcatatctt tgtttcttgt 300  
 ttagtggttg ttagaggtga caaaatagat gaggttaact aactcgactt gaaccattt 360  
 gataaaatgt aggggtttaa ctatagacta tgatcatgaa tntaatttaa gtttttta 418

<210> 32226  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 32226

agcttacggg agccaccctt tggcagcagc cccaagcctt cattgtgcat ttttgcttcc 60  
 atttttgcga ttttctttca tctcctacaa gtaagtacca tctcccttca aattttggct 120  
 ttccattgtg gtattctggt gctttagctc tcatattctt tctaaatttc atgacacaat 180  
 ttgcgtatga atccatgctt tgattatttg attgctgggt gcaacggatg accctacgcc 240  
 tacctttgat tctactatgg at 262

<210> 32227  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 32227

actatacctg gtatctgaca tatgtgtttc ttgatctata caggcgaccg tgactacacc 60  
 ctgcgtacta ctagactcca tcttagacga gatgttgatc tatatgatcc ctcttcttgt 120

aatgggtatg atgaaagagt ggaaagaaac attcttatac cctctctact acctctatac 180  
 ctctcttgtg acgaggaccc ttgctaacca ccttctgcta cgcctcacag actagatcat 240  
 gaactatcgt taccatatgc tactccataa ctagtattat atttggtgtg catatatgac 300  
 atctgtctct ggaccgtact taaacctggg atc 333

<210> 32228  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32228

agttttcatc ggcaaaagga tcgaagtgtt tctgattata ggcaaatttg atcatcgcta 60  
 ctttgataaa taaaaagcct gnggcaaatt gagagagtaa gaatgatgga ggaacccatg 120  
 ctgtgactgt cgttcttaca tggccaaatt tcccaccagc tcaacaatgt caatactcag 180  
 ccaatatcag cctcctcat taccaccac cctatcaacc aagaacaccc aatcatccac 240  
 aaaggccatc cctaaatcag ccacaaagcc tgccttcgc acatccaata ccaaacacca 300  
 cccttaacat gcacaaaat accaaccagg gaaggaattt tccagcaaag aagcctgtag 360  
 aattcacctc aattctggtg tcgtatgcta acttactccc atagttactc gataatgcaa 420  
 t 421

<210> 32229  
 <211> 131  
 <212> DNA  
 <213> Glycine max

<400> 32229

cgctttttat tatggcactc tcttggtggc gaaaggactt cttccatggc ttattcccta 60  
 ctggatgacc tctctttctca cctctttctcc tttgtcttcc gctacatctc catgatggaa 120  
 aatcaccatc g 131

<210> 32230  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 32230

atctaattat tagtttctat gttattaaca agccgttcat gagttaacta gagatttctc 60  
 tttgaattat ccgtattctt tctagactat aacttaaaaa cttcagaatt taaccacacc 120  
 taggtatatt atgataacat ctgatttttg gatttcagta gtctaaaaac actattcagt 180  
 cgcatatcag aacactaaca ttgtctacca catatgataa atggggatgt tacaactgag 240  
 agcataaacc ttgataacta tcatgaagta caatcagcat tagatagtta tttgtctatt 300  
 gttaagtatt agtgacgtat ttttagtctg aactttatat taaatccatt ttaactaaac 360  
 aattattcat gttttttata aaaagtgtca ttatatgtat tttacctaac aactg 415

<210> 32231  
 <211> 215  
 <212> DNA  
 <213> Glycine max

<400> 32231

agcttctagt ctaatggact taccttgaat gaatcgcttt gatagcccct ttgagcctat 60  
 gttccccctt ctttgttttg aagctcatta caagccttaa ctgaacaacc atgatcacac 120  
 cctaccctta atgagatttg gagctttgga attgtttttg gaatacgtgt ggcgggggat 180  
 atctcaattg aagatatgat ttttgacat gctca 215

<210> 32232  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32232

cttcggttgt tcaatttcta gcgctctgat atattatttt ttcgaatctt acatccgagt 60  
 gaaatgttat gaccattcga atttgctgag agcttctggt gttgaatttc gagcgtctag 120  
 atgagttatg tcaccgaatc ggacatctgt gtgaagagtt atgaccattc gaatttctcg 180  
 acatcttccg ttgttcaatt tcaagcgtct cgatatatta tgtccccgaa tctgtcttct 240  
 ttgtgaaaag tttggaccat tcgaatttct ggacagcttc cgttgttcaa tttcnagggt 300  
 ctcgatatat tatgtccccg aatcggacat ttgtgtgaaa agttatgacc attgaaattt 360  
 cttgagagct tccgttggtc aatttcaagc gtctcgatat attatgtccc ctaatcagac 420

<210> 32233  
 <211> 205  
 <212> DNA  
 <213> Glycine max

<400> 32233

agcttgctct atatttacat tgatgtttgt atttatggga ggaggttata tgccattttt 60  
 gctttaaaga gtaatgtccc actaaaacta actctccaaa tgtttgctt cgcaggaatg 120  
 gccccgacga agcttgcttc acagacgtcc aggaaggaca acgcggccga acgaactagt 180  
 tccgccccgg agtacgatag tcacc 205

<210> 32234  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 32234

cttccatcca gtgttccctt gatggggacg aggggaggct ttaattgctt taattacaat 60  
 cctatcctca ccataagaca atttgggtac cctatgagag gagcaccatt agaggaaggc 120  
 ctcacacctt ttattgcgcg aggtttcaat agcaccaacg tgagggtgct tcatagggtc 180  
 cgcaaggcat gacacagggg gcaaaagatg gacgaggaac ttatgggaag taacaatggg 240  
 cccatcgacg gttaccgtag gtggttgaaa gcctacacac aaagtctgga ttggctttca 300  
 aatttgagaa ctacta 316

<210> 32235  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32235

agcttgagtt atatcgcaac aaaatgcagg agctgggttag taattcatat cttgctttgt 60  
 tttaatctta gattgatgtt tattgcttaa ggctttgcat ggttgaaatc aattatttgt 120  
 aggcttgcta ngccacctgc tgggtggttca ctttaaagta aaattgtgtt tgcattaatg 180  
 aagttattgc atgccaaaga ggttaaaaat aaatttatta atgatctttg acctgtaatt 240

attcacatgt ttggcttgcc ttggttttac cacatacctt ctaagcgaaa tagctctcga 300  
gtatactatt atatacat 318

<210> 32236  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 32236

aatactcacg cttgtgcttg ttttattaaa attcctagga ttatgagctt ctaggtgtgt 60  
cctacaatga cttgcgaaac aaaaggtgat caaataacaa gcagagattt aaaaggtact 120  
aggttgcctc ctagtagcgc ttctttaacg tcttgagttg gacgcctgat gacttgctcg 180  
tcacggacct agtactttgc ttacctttgg ctttggactt ggtcgccctat tggttggcca 240  
tgtgtcgtag gcaatactct aacctttttg tggatgagct gatgggctct ggaggtggcg 300  
acggtgcatt tgttgctgt tgctggcgat cccaggtg gtgtggtgtt ttgccttgcg 360  
cctgcctggg gcgcaatact tcttgatgaa agctcgatta gtatggaacc tgatg 415

<210> 32237  
<211> 245  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32237

tcaagcttct atcaagtggc aatcagagca caagagcttc aagtaggtgc tcttanact 60  
tccattaatt ntntgcttta ccttctcttc cattggtgnt tcttcattct ttctccatgt 120  
atctctcac atctcttggt ctacatgttc ttaacatgat tctctagagt ttccaccgat 180  
taaacttgct atagaagcta gatttgattc tctatgggtc acatttcttg tcttgttct 240  
tgaac 245

<210> 32238  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32238

ntgaaaagtg ttgtttttca ccttcttggt aagccaattt gctgggtcag cgagcagcca 60  
 ctaagcgcaa cactcatggg ctaagcgcgga ggaagactct ggaagaagat gagctataca 120  
 ggttcgctaa gcgcacgct ttatctcact aagcgattg ttttagttca tccactaagc 180  
 gagaaaggca tgtgctaagc cgaaattcac taatgtacgc taagcagtcc ataagtgtgc 240  
 taagcgcacg agcacgaaca aggttgatcg aggctgtacc cgaatcaaataaacattaaa 300  
 atgttgtcac taggaagtga tcctacgctg tttcccaaca agcaatgata aaccaaattgt 360  
 tcataacgga tagtacgaaa tagtaacaaa ttggggggggg gggggggg 407

<210> 32239  
 <211> 113  
 <212> DNA  
 <213> Glycine max

<400> 32239  
 tcaagcttat gagaacgtgg ttccacgact ggagactgtg gatcatcgtg atactggttc 60  
 aacttgagca cgtgtgggct caccgaggagc agcctcattg ggtctcacca ttg 113

<210> 32240  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<400> 32240  
 gaataacgtc ctatcgattt ttttgatcat attttttttt caagatatct tgattattcc 60  
 atcattattt tgttttattt ttgcttaacc gatgttatag cgtgaatgat cagtcgaaat 120  
 tcattttatc atttattaag tgacaaaact acttacatat accgtaaaaa gcttggttaa 180  
 gcggaagaaa agaaaactga aaataagcga aattaaagtg acaatacaca caacacgtag 240  
 ggaccactaa cgtgtgatc gacg 264

<210> 32241  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32241

taagcttaaa gatccagtct ncatagaagc ctgacaagca agcttccatc aagtggtaat 60  
cagagcacia gagcttcaag taggtgctcc ttacacctcc attaatatct tgctttacct 120  
tctcttccat tgttgtttct tcattttttc tccatgtatc tcttcacatg tcttgtgcta 180  
aatgctgcta acatgattct ctagagtttt caccgataaa actcgctata gaagctacat 240  
ntgattttct at 252

<210> 32242  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 32242

gaaactcacg cttatatctt tgaaattctt gttctatatg ttcaacctat ttcagcttgt 60  
ttgacaaatt atatcaactt tttatatcct aaaatgctga ataaataaat gaagctttgg 120  
atggcttaaa tttccatata cacttgctag ctatttcctt cttttgaata atgattcacg 180  
ttaggttcta caaagtgaac tttttaatta ggcataataa gaacttggcc ttgcataatt 240  
tgattgcaca gaagagtatc attttactag aattcaagct aatgttcatt cttaataatt 300  
ttttgtgaac attatcttta aggtctttat tggataacac aatgagtatt gatgttgact 360  
acatattgaa caactgaatt gacacacata ctagcatata ttttaacagca tcaaaacata 420  
ttgagtagag gccaacata 439

<210> 32243  
<211> 236  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32243

ttaagctttc atcaagtggg tttcacagca taagagcttc aagtacgtgc tccttaaacc 60  
tccattgatt tttagtnta ccttctactc cattgatgtt tcttcattct tatccatgta 120  
tcttctcgca tgtcttgggc taaatgctgt taacatgatc ctttacaatt ctcaccgatt 180  
gatcctgcta tacaagctag acttcattct ctatggttca catctcttgt tcatgt 236

<210> 32244  
<211> 441

<212> DNA  
<213> Glycine max

<400> 32244

aatactcccg ctttgaata tccaccacga tatcagggat tataatcctt agacaatata 60  
aattgcatat tacagcgtga acatcattgt tttttgtaga agacgtgcac gcgcagatac 120  
cttctattaa aaaagagatt ggtcaagcca gaaagtgttc tagataactg catcgaaaca 180  
tgcttggttc ctgtcgcaaa aatacaaaaa acgaaaagcg tgagctggag aatgaaaaaa 240  
aaaaattgga agaagaacaa tgttggggaa aaggaagaac cagggttgta acggaataat 300  
tgaggaagag gttggtgcct tgaagttgaa caggcgtaga gacgatctcc gatgaaagag 360  
gacttctacc tcatttgagc ttgcggtgag gcgcgcgtcg ccattatcga tctttctttc 420  
tttttgctcc tgctactctt a 441

<210> 32245  
<211> 240  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32245

tctgcttaag gtacttgtgg ctggtgcgag gcattggtgg ctcggtgctt gctctggctg 60  
caaagaggaa agggtttgag gcggtagctt tgagaacgat atgagtgcta taagagggga 120  
ggggcactat acgggtccca ttcacatata aagcactgct tcggctgatt tggaagctat 180  
agatttggac gctgctgcaa acctatgaca gctggctgta tcacggatga tangatcaat 240

<210> 32246  
<211> 341  
<212> DNA  
<213> Glycine max

<400> 32246

agagtttggg ctgttatcca catgctctct ctctagcaag tgctgaagaa aatgtattac 60  
ggaagaagga tcccagccga ggcgctgacg taacgactgc ctgctgctat gcgacttatt 120  
acacgaagat tattctgcgt tacttcccaa tgatcctacg gtcttacata tgttgaatcc 180  
tccacggcta actaccatat acctgcttt tcaattaatt ctatgtaccc cgtgtgcgcc 240



agcttaaata ctagtgtgtg tgtgtacaat gccccttcat tttatatattt ggacataagc 60  
 tatgtcctgg ggtgtccgat tagagttggt gctttatacg cagaaatttt agacactatg 120  
 ttcaattcta ggcttagact agcctcatca tctacatact ggaaacatgc caatcccgtt 180  
 acttttgggt tgaaatctta aaaatatcta agggatatag aaatacccaa gtgttatttt 240  
 tagttgttct ttagtttgaa atctgattac acgtttctgt acacgtcttt cac 293

<210> 32250  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 32250  
 tcatttaact ggtcatacat gtgcaccagc gcggcagttc cccaggcata gccccactc 60  
 tgaccaggtt cttggaaagc ctctagatgc accacatgaa catgtgttgc actcttggtta 120  
 gaaaaaagag tgcaaccaac caagtggagg aggtaagcac gggctgtctac aatccaccat 180  
 cgggcacgac atctactctg atagacatcc cgaagccacg aaagtcgtac atatgccgca 240  
 tccgcccgtta cagtctcaga tctagcctcc tcatcgaaga cctcaaacia ctccatcaac 300  
 aagaagaccg catcgccac aagtagaggc tcaaagctgt ggaacgcgct tatgatcgaa 360  
 agatggagga gtgatgccac atcgccagc gtgatcgta actctcctac t 411

<210> 32251  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32251

agcttatgat attgtcttgg aaactataaa aataaattat ttgaatcaaa gatacattat 60  
 tttcatgcct atcaaatgtg ttaaatttta aaattaataa atcattattg atataacttt 120  
 catgataatt attataaaaa tcacgaaact tattataaat acataattac tataattaaa 180  
 taaaaatata aaataactta cactatcaat atataatcta tttaatcaaa tcanaatcaa 240  
 tatata 246

<210> 32252  
 <211> 482

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32252  
  
 accgctgcct gacacattga ttacatcgac atttcgagan ctacgcaaca caacacctcc 60  
 cggacgtctt atcaatcgca acaacttcgc cgcttctcac cttctccttg gcgagcgcct 120  
 cgaggatctt agcgccgatg tacgaaaccg ataccatctc cgatcgatg agcgtcggct 180  
 tcccggacat cctagagggtg ccggacaccg catggcgggc tatcaggacc tgcaccactc 240  
 tatgttcaat gacttcgcgt tcttccttga tgcggacgcc gaaggccgtg cggaacgcat 300  
 gtgagagggc tttggttctg gacttatcct atgataacat ttctctggca acgattactg 360  
 gaaaaggggt aattaggcac gaggacttgg acatgacat agagaatgta gacttgctcg 420  
 agtcgtgctc tgcattggagg atgacagcgc tgaccaaata ttgcatctt aatcactcga 480  
 gn 482

<210> 32253  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32253  
  
 tcccccaatt ntctataaat aggggggagaa gtaatgtgaa aaatgtgttc agccccttat 60  
 gcatttctct ctctttcgaa tttgcttggg aaaattgttt ccgtgaagaa aatccaagcc 120  
 gaggcgttc cgaaacattt ccgtaacgtt tccgtgagga atttcgagaa ggtttcgacc 180  
 gttcttcgac gttcttcatt cgttcttcatt cgttcttcga tcttcaactg gtaagtacct 240  
 cgaaccaagc ttttcgattc attctatgta cccgtggtgg tccacattgt gtttcgtgta 300  
 tttttattct cgtttcattt actttntata ccccttttg acgtgcttaa gccattttat 360  
 ttaagtcatt tctcgcttaa cctataaata aaataaattt ccaccgatcg tttgaattgt 420  
 attatcccg aac 433

<210> 32254  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 32254

agcttgccaa tggaggaaat gatgtctcaa tcaggggaatt gtctttttaa tacaatagca 60  
aatcctttga aatttactac cattttatat gaagaggaga ctgagaaacc ttttctacac 120  
tactaaaaaa aaggccttct acattagttt taatgaccat tttacatcgg ttatggcgtg 180  
tggtggtaga ccctgtcgt tgaataacaa catcggttga agaactagtc ttagaattgt 240  
ggacattcta catcggttct gaaggtagaa ccgatgtaaa atgtggacat tctacatcgc 300  
ttgaaccttt agaaccgatg tacactgttc acattctaca tcgt 344

<210> 32255

<211> 419

<212> DNA

<213> Glycine max

<400> 32255

acaagtctac caaagtgatg gaacaaatta tgtcaatttc ataacaaaac attcagctat 60  
tattatttaa catttcagga caaaagattg tgtggtggtt gtgcatccat tctcaagtct 120  
atctaccaag ttatttgatg aaattcaaga tagagttggt agagatcgac ttggcttttt 180  
tttcaatcaa ttgtttcttc actattttaga ccacaacaca attctctttt ggttataatg 240  
tttcttagtg ttttttattg attgtatatg atttctatag tgtattttat acaggcctta 300  
atagtatttt gattcccaat agtataattt ttgtacacag tgtgtacttg agttgcacta 360  
cgttggttct tcttaatgca ctgcaatggt tctataaaat gataggttta tagaggaag 419

<210> 32256

<211> 188

<212> DNA

<213> Glycine max

<400> 32256

agcttggatt ttcgagcttt ggtgtgtgga taatcggttc attgttgtct gaactttcaa 60  
ggcccttctt atctcttcga ggccataaac cagcagccac tcaatgaaga ttcaaactct 120  
tgctatacga gcattgcaga agagcaatgg tgcacgagca acccttttct catgaagacc 180  
cttctctt 188

<210> 32257  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 32257

ttcataagtg aaatcagggtg tagccatttt cctaagtgtc ctctcacgag atggagggttg 60  
 agccgtgttc tcagtatgaa aattagtagt tgaatgtcca aaatcagaat attcagaatc 120  
 accagcaaca aaatactcat agtggtcaaa atgctcagaa tgcacaaaat gaacaggatg 180  
 cacactatgc ctaagtaatc tatgaaaggt tctatctatt tcaagatcaa aggggttgtaa 240  
 atcacctgga ttgcccctag tcatgcacta tatgcagcaa atcatgtatc tctcaacaag 300  
 cacctaaca gggggtaaaa ctacagctat actcaaaaa tatccaaatg agctgaaatt 360  
 gtgtgagcca caccctacca tcatgaaaag at 392

<210> 32258  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32258

tttgtctatc aattggaagt caaatgcacc atgcatgaga ttttcgatgc tgggcaggcg 60  
 atacgcatct ttacgatgtg ctttattgag gttgggtgtag tctgtgcaca tgcgccattn 120  
 ttcattggcc ttccttacca agacaacatt ggccaaccaa gtcgagtatt agacttctct 180  
 gatgaattgg gcttacggca gattgtctat ctctcccccg ac 222

<210> 32259  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 32259

actccgctta gatttaattt acataaaaaat aattttcttt ttgtcagttc actttggtta 60  
 tgattaatta taattggctt gtcacaaagg tttttaaaaa tggttcccat tgtaattgcg 120  
 attgtaaaat taaagatttt agagttattg tgacttcatt acaactataa ttatgattgc 180  
 atcgaccata tttctctgta atttctcacc acatcaaaag attgtaacca aagtgtgaat 240

tactttaatt tagaactctt gttttcatac ataattattca catataaaaa taataattaa 300  
 tcttcgtcag agataattaa ttacttatta aaaaatacat atcattatta attatgttaa 360  
 tcaatattat tcatgcacta tatttaaata tattatactt agccaaaaat agttcatcac 420  
 atacagata 429

<210> 32260  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32260

cccctgggat actctgagtg acctgacgca ttttatttgt caggggggctg tttgatatgt 60  
 aaaatgctaa aactaaagtc tttacttgga tctatacaat tcaccaacg gttgtaaaga 120  
 gtccagnngg ctgaaagacg atgattatat aatgcacaat tttgagaata ttgctgtatg 180  
 actgtgctaa tcctaattgt attgagaata ttgctacatg attctgctga tcttaattga 240  
 ttctatctcg cgcaattctg attgcatgc 269

<210> 32261  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32261

nccgcggcct gacactttga accttgcant tcgnccaact ttcgaanacn nccccctnnn 60  
 gagtgtagga gggaattacg actttgntaa agttatcagc ccanacgcag tgctcgtctg 120  
 gtgaaatgga cctccaaaaa ggtgttcccg gcatagaagc gcttggtata tgcgtgcaat 180  
 atcaggtcta tggatgatcc atgaagacta tctagaagtg ttcagagcgt ggcatacaacg 240  
 actcccaatc gtactacaat gtacataatc ctccggtgag aatgtcactg gaaaaagagt 300  
 ctaacaacac ttgctgcacc gaacattggc aaaaattgtg tatgatgaat tgtagccgga 360  
 tgcactacaa ttatgccccc tcgccagctt aaccggcatt gaggccgcca cttgctcaca 420  
 cttgttatac aacgcgaaaa tcgattgata cttgtactgg gc 462

<210> 32262

<211> 479  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32262

ncgccgcacc ggatttgatg cantgcanca catttggtt ttgccacacc gccacncgcg 60  
 gatcctttat agtctacctg aggcaactctc tttatttgat cgcgtgatca atgggtcggg 120  
 gtaaataccg tatcctacct cctgacataa tacctaaaat catatccttt ctagaaacac 180  
 taactgctaa tctttgtact tattctgttt ttatccgtac acatttatta acttttcctt 240  
 ttaatcttct ccattcttct attacatatg atatcgatct catatactac aatcttaacg 300  
 ggccccattc ctattctata tcctttatac atcccaaggc tcaagcgctt aaacttgatt 360  
 tacaactgaa ctgatccata ttccacaaca tattttctat cccaacatca aacccaactc 420  
 tgatgacacg cctactcaac tctccattca tggcactcca tatttcgcac tttctcacc 479

<210> 32263  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32263

tctacttatg tggcagggcg ggcttccttc accttcttgt ctccaacgtg ttctttgacc 60  
 attgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
 accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cggtgttttt 180  
 tcctaaaccc atcccgggtt cataaccgtt cccaacata actcggggcca tcattaccgc 240  
 tgcacgagac agacaaggct gcccaaagag ggagtacacg gaggaatgc tgaccacctc 300  
 aaaagactgg aaagcagctt gtgacgattc ttctgcggct tccacataac gcatggagga 360  
 tgggcagctt accaagatat ctttcttcgc tgacacga 398

<210> 32264  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32264

tttagcttga gatgacgaag tggtgaaggc cgaaacttcc tgcttttatt gttgaccaca 60

gagtgggtacc tggagatatg tcgcgggggt caccgagacct tggggacgtc acgtgggggtg 120  
 ctattgcccc aaaccaagct tgaccaatcc cgacccaacc cgggcatagt cggtcagtga 180  
 gaacatgtga cgtacctaag caggcgagct cctgccagtc aacagataaa aggaaaacaa 240  
 gaccacacag caccgaggct tgtgggtggct ggccagctgt gaatcttgtg taatatgtgg 300  
 attgtggccc tggtaatcga ttaccaacgg tgggtaatcg ata 343

<210> 32265  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32265

tctattctga atttcaagcg tctcgatata ctatggttca caatcgaaca tccgagtaaa 60  
 aagttattat cgtagaata tgctcagagc ttctgttttc agtttcgagc gtctcgatat 120  
 attacaggac tcaatcggac atccgaatta aaaattattg tcgtttgatt ttgctcatag 180  
 cgtctgcttt taatttcagg catgtcgata tactgcaaga cacaatcgga gatccgagaa 240  
 aaaatttaat gttgtttgaa ttttctcaaa gcttccattt tcaatttcga gtgtctcgat 300  
 atattacagg acttcacgag acgtccgtgt taaaagttat tgtcatttga atntgctacg 360  
 agcttctgtt ttcaatttcg agcgtcttga tatattacgg gactcaatca gacatccgag 420  
 taaaatgtta ttg 433

<210> 32266  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<400> 32266

agctttgagc aaattcaaac gacaataact tattactcgg atgtctgatt cagtcccgtg 60  
 atatatcgag acgctcgaaa tggaattttg aagctctgag caaattcaaa cgacaatcac 120  
 tttttactca gatgtctgat tgagtaccgt aatatgtcga gacgctcaaa attgaatact 180  
 gaagctctga gcaaattcaa acgacaataa cttgtcactc agatgtctga ctgagtcctg 240  
 taatatatc 249

<210> 32267  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 32267

tgaagtgagg aagtgtggaa gggtttagact tcctactttt attcgttgac catagagtgg 60  
 tacctagaga tatgtcgcgg gagtcaggag accttgggga cgtcagggtgg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgaccc aaccggggca tagtcagtca gtgagaacct 180  
 gtgatgtacc taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240  
 accaaggagg cttgtgtggt ggctggccag ctatggatct tgagtaatat ttggaatatg 300  
 gcctctggta atcgattacc aagggtggtt aatcgattac gaggcttaaa aatgaagaca 360  
 cgaagttaag atggcctctg gtaatcgact accaaggatg tgtaatcgat tacc 414

<210> 32268  
 <211> 218  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32268

agcttgtaat cgattacaca tatactgtag tcgattacca caggagtttt tcagaacaca 60  
 ttctcaacag tcacatcttt ttatctgttt cttacatggc catcaagggg ttatatatat 120  
 gtgacttgag acacgaattt aacaagagtt tctcagaaca naaaggtctt atcctcttat 180  
 aaagcacaat cgttttattc tcttacaaat tccttgcc 218

<210> 32269  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32269

tcgggtgatc tactacgctt ctataacttt ggatgctgcc caagcaaatt aactaccac 60  
 agagaaggag ctattagcga tagcttttgc tcttgagaaa tttcgttcat atttgcttgg 120  
 tactcgtggt attgtttata ctgaccatgc agctctgaag tacctgttga agaaggctga 180

atcaaagcct agattgatca ggtggatgct ttggatccaa gagtttgatt tggagatccg 240  
 tgatcagagc ggtacacaaa acctcatggc tgaccacctg agtaggattg agcgtgcgcc 300  
 tgaggactca cccattcggg atgatttttc agatgaccat ttgtacattc tgtataagat 360  
 ctctgattcc ttccccactc cttggtttgc taatattgtg aattatttgg ttgcttn 417

<210> 32270  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 32270

agctttccac atccgatcat ggaaggacct ggcaactgcc tctattatgc agtaccagta 60  
 caataccgac atggcttccg atcggaacca gcttcagggc atgactaagc gagagcatga 120  
 gtccattaag gaatatgcc aaagatggag agatcttgta gcccaagtcg taccgccaat 180  
 gacggagagg gagatgatca caattatggt agatacgtta cacacgttct actatgaaaa 240  
 gctataggct acatcccact aactttgc 268

<210> 32271  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32271

attctcccct tttgtcaagc aaattctttt tgacatcatc aaaaccttca tgatttacat 60  
 tctccccctt ttttgatgat gaaaatcatt atccaaggct tgatcttttt tacatcatca 120  
 caatcttcat gatttacatt ctcccccttt ttgacgatga caaccacttg taggttacga 180  
 gcaacaacaa aacgaaacga gaaaaaaata taaatcgcat agtcaatttt cttagggaga 240  
 aatgtggcct ttgtttgttg tcttcataaa tcacatatcc atttatcttg gtgagaaata 300  
 tgaataaact ttgatgcatg ccatgtgttt gaagaaattg ctatcaatgt atcaactntg 360  
 ctcttctctg ttttcatagt ctttcatcat gatacccaga cttatgatgt tattctctga 420  
 atca 424

<210> 32272  
 <211> 172

<212> DNA  
<213> Glycine max

<400> 32272

agtttccatt tgtggggcac gcttttcaca ccttccttgc ttggtegaca gatctgggtca 60  
agtcctttatc acaacatata cttattgtcc ttactatatg ttccctcttt ttaaattaat 120  
tcattcagtg tgcctaaact tacgctatctt acctttgtcc tatgaatagg ta 172

<210> 32273  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32273

aagtgaatg tgtaaccatt atgtataatt gcaagttttt ataaagngat ctaattggaa 60  
tcttacgtgt aagcaactaa tctaatacata tcaacacatt atattttcaa cttacaacca 120  
tgtgaacaac taatcttatg atcaatacta tcatcaatcc tgtgagtctt tcaatcttat 180  
cggcaatgta acaattacga atcaaattat caatactctt cctttaatta ttttattaag 240  
agacttcttt tccttttcta aaagcttaga cataattaag tgaaagactc accatggaac 300  
acgttgctag ctatagacaa aggaactctg aaactttaat taacaagaca aggttacact 360  
acaccaaata ttattatctt aattaaatgt cagttatcaa taataataaa ttaattatca 420  
ctcttatc 428

<210> 32274  
<211> 143  
<212> DNA  
<213> Glycine max

<400> 32274

cgacattgta gataaatagc tatgactttc acgctaaaat aactacaatg catgggttggc 60  
actcgaatat agaataagact gtacatgcat acgagaagat cgtgcagaat aatgctatag 120  
tactacactg gaagtactag agg 143

<210> 32275  
<211> 200  
<212> DNA

<213> Glycine max

<400> 32275

agcttgtaat ttaagaaaag agcaacacag agtcatgtaa taagcctaaa acaaactata 60  
 agtataaaat acagcagatg caccctagtg gatgtaccct ccactacaac tgacccaaaa 120  
 gagatgtacc ctctcttggt ctcactcaaa cccaagcaca tgtaccctct acttgtacca 180  
 caaaggatgt accctccaat 200

<210> 32276

<211> 426

<212> DNA

<213> Glycine max

<400> 32276

acactacaga atacttacgc ttctaccatg gatgattaaa cattgggtgtg ttgcttcttt 60  
 ctttatattg gttaagcatt caaaaattgt gtttgtcttc tgtcttgagt ggtaagcac 120  
 catgttttagc ttctgtcttt gatgggtaag ctttggtttg cttctacctt ttaggtggtt 180  
 aagtgtgttt gcttctgcta agtgggtaag catttgtgtg tggcttctac ttaatggttc 240  
 aacatattcc aattgtcttt gaatgttttt cagtcatttt caatctgctg ccaatgtgtt 300  
 tccggcatgt ttcattgtct atttttctac ttgtattgtt catcccaagc tggaagtgtt 360  
 gactccacct tccatctcgt gagggggagt gtgtgtgtct ctaatcagta ctaatcactt 420  
 tgaagt 426

<210> 32277

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32277

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 atattcaaat ggtcaaagtt aaaaaaatg cacacacatg acctctatct atagcctaag 180  
 tgtcacacaa aattggagag aaattcgaat ttcaattcaa atttcacttg aatttgaaat 240  
 tgaatttgtg gagacaaact tcggagccaa aatttcacta attatgatta gtgaattnta 300

gttatggttc agccactaa tccaagatca atctcaagat tctccattaa gcgtgcttan 360  
gtgtcatgac gcatgtaaag catgaacgac atg 393

<210> 32278  
<211> 405  
<212> DNA  
<213> Glycine max

<400> 32278

cttatttcct tgtagccaaa actcagggtc attgagctat gcacccatcc tggtagctaa 60  
gctcaagtct ttgtagccag aactgaggtt cattgagcta agcgccactc atggcagcta 120  
agctcatatc cttgtggcaa tgtaagcact aagcgattcc ttttccgcta agcgcatgct 180  
tctctgtact caagattgca tcatttttagc taagccgact tggtgcccgg cttagcgaga 240  
gttgtagggt ttttgatctg tagaactcgc taagcgatct tatcggcatg ctaagccaag 300  
cctttgtgca aaaaaaatt tgattttgaa tttcaaacat cggctaagcg cgcaaattccg 360  
ctaagcgagc ctctttgaga aaccaaactg ctctctggct cgctt 405

<210> 32279  
<211> 163  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32279

agcttatcaa ttgaactaga aaattaacca agttctctgt ttagataaac atctctgtaa 60  
gtatctatag aagacaatga gaacgtacaa tgaatcgagc ttctaacata agttaaatt 120  
aacttacgca cttaactctn tctagaagct ctttttattt aat 163

<210> 32280  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 32280

ttgtcaataa taatttaaaa gctagtttat tatgtgttct gcacgagaac taggtcccta 60  
acataaaggg catgtgtgtg ttgagtttat gaattcttcc taaagaggct tgcttgatt 120



<213> Glycine max

<400> 32283

atcctctaca gtggagatgc acgcatttta tcttgctgct accatactat gtccgtaga 60  
gattatggca catgtttgca ataggtatgt acaataggaa tcgtttgtct agctatgacc 120  
cctacacagc tgaggaagat gcctttatat gagcctgac ctcctcc 166

<210> 32284

<211> 429

<212> DNA

<213> Glycine max

<400> 32284

tcgtcctcag atccctcttg ttggactatg ctcaatttat gacagccctc ctaggttttag 60  
actaacttaa actaagcttc ctctcagat ccctcttggt ggactagact taacttaa 120  
agcttacaaa agtttagact aatttaacct aagctttgtc ctcatatccc tcttggttga 180  
ctagacttag accaacaac attattgtaa caacaaattt aaaacaaaa cttaatctgc 240  
agatccctct tgtaagacta agtttcaatt ctgcttcatt caagttctaa ggcaacaata 300  
catttcccaa tgctaaagtc acctaaccag gcacacaaat gggatgatcag accaaaagca 360  
tatggaattt aagcactgaa agaagcattg aacacaagac acacaatcaa ttagatatca 420  
caataatta 429

<210> 32285

<211> 250

<212> DNA

<213> Glycine max

<400> 32285

agctttctca tttatgtctt atgtcatgat tggatgagt taatttaatt agaaaagata 60  
tctaatttta tttttgcac aagatattta ttatttttat gcagttatac ttatttttga 120  
caattagtgg agtggtttatt gttttattat catccggata aaaaagtaac ttgagagctt 180  
ttggacatca attctatgga ctctttacta cacgggtttt gttttttcac aatcaccacc 240  
atggaataca 250

<210> 32286

[illegible]

<210>	32287
<211>	331
<212>	DNA
<213>	Glycine max

<210>	32288
<211>	427
<212>	DNA
<213>	Glycine max

13459

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 ttggagtagt tgcctaagtt ccataagctc acatgtgact attgccatag aacaaaatcc 240  
 aacttttgcga ctggatctag taattatggt ttccttattg ctcttccatg atattagggt 300  
 tcctccagca agaacacagt atccttaagt ggatcttgtg tctaagggtg acctttccca 360  
 gtcaacatca gagtaatgaa tgatcttttc attgcctttg tcctcatgta ataatccttt 420  
 acctagt 427

<210> 32289  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32289

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 ggtctcttac cactaaaatc aaccctaaaac tcaaaggaag cacaaatata aggtcccttg 120  
 aacaagaagg atcaaacct caagctctcc aatagagggt ttttcttgaa agggaagaag 180  
 agagtgaat aagattgttg tatgtttggt tcagttntga ttccactana nactgagtat 240  
 atgactcttc tcctcctctc tattcacatt ccatcactct ctaaactcac tcacccatt 300  
 cctatcattc aaggtgcatt cctctcaatc cgaacact 338

<210> 32290  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 32290

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 ggggagatta aggagaggaa cttttctgat tatattgctt ccttccattt gagtacattg 120  
 tttgctatat ataagttttt ctgctaacac tttgcaaagtg gtgcttttgg gatgtttcct 180  
 tggaggaaaa gcaaaaatta caaaaagtga aatgcaaatc ctaacggcat tgtactcctc 240  
 agccgataga ggaatcattg catgcgcact acctcctgca aggtccgcca tgctcactcc 300  
 actacttggt gacaaagtcc tttaggtaat aaggcttggt aatttccctt tttggccttc 360  
 agcattcttc cttgtttggt tctgcctcat tctctgatta tgctgcatca tttga 415

<210> 32291  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
  
 <400> 32291  
  
 agctttcata agtgaaatca gatgcaacca tctccctaag agtcctctca caaggtggag 60  
 gttgagccat gttctcacta tgaaaactaa tagccgaatg ctcaaaatta gcatattcag 120  
 aatcaccagc aacagaatac tcagaatgct caaatgcac agaatgatca ggatgcacac 180  
 tatgcctaac taaatcacct gaattacccc tagttatgca ctatatgcac caaatactgt 240  
 gtttttca 248

<210> 32292  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32292  
  
 ctccgcttga tatccgntat aagatgatta agaactagtt ttctagccaa ccaaacaaaa 60  
 aatattttga ttnttttttag agccattaat agcttggttag aataaaaaat acccggttct 120  
 tcaagcttgt tctgtaagag ccagaagtgg cagtggaaaa taatacttgt aacatgttga 180  
 agttagtga acttggtggt ttgctcgagg tgcagacttt aatgaatttg ttaccacaac 240  
 cgatctaaaa ggacgtcctc atgcttctta agctttaccc aaactgaacc ttttacattg 300  
 gttgtcaagc aactgattta aaaagtaa atgtntatata aattgtgttt acaaccgatg 360  
 caaaaagtat tgatttctat cacataatta atggatctaa caaaaaaggc acaactgttt 420  
 cttt 424

<210> 32293  
 <211> 286  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 32293  
  
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tcaaaacatt atggattagc atacaaccta gacgacgtct ttgcaaggac atgaaccatt 120  
 tggttcgcca aaattcacat ttgagttact agttaaacga acgttattat tacaaaagtg 180  
 aaaccaattt cgaatccata tatattggag cagcactgaa gcaagtcaca nacatgtttg 240  
 caatcagtct cgaacgtgac gttgttgctg ccaactcaat cgtoct 286

<210> 32294  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 32294

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 tcactcctgc cttttcaagc ttaaaaactt caaggtctgg tgccaagtgt aatacttact 120  
 tcttctgttt ttctctttaa tttcatgcag agactgttta aatgaatttt atgttatctc 180  
 acgagctttg gagctaacag ggttctaaca actgctgtac accaaaaaga aacaaactcc 240  
 ctagcaagct ctggcacaaa gcatggacaa atgggggtatt acaacatcaa agaatgacca 300  
 ttctattgac agcagcgaca atcagaagtc ctcaacccca tgtttgaaga cgaaaactat 360

<210> 32295  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<400> 32295

agtttttgtt atcggatctg ccacaggcca cggtgtcttg aaaccaaatt aggctggcat 60  
 ccaaccaggc ctaaatagtt cgattgaaca cctgcacgac aggacaggat ctgtggattc 120  
 aagtaaaatg accatatctc atctcacttt tcttcattgt ccggatcgac agcacgaaaa 180  
 tcgtcagtga accaggccgg gccgaccttt cgactaatga at 222

<210> 32296  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 32296

aactccgctt cctgcggcca ttctgcgaa ggcaaacatt tggattgtta gtttttacca 60

agaaatgcta cccttaaaac aaagatggca tacaactccc tccaataaat acaaacatca 120  
atgtaaattt agagcaagct tatgcgcata cttcttcacg aacgttcact tgcacaagac 180  
attcttataa ctaagaaaaa tgcacccata tacaatcaag gcaccttcgt tacctagatt 240  
atttacatgt acttccaagg tgtatttggt accgacatca cacacatttc ctttgctaaa 300  
ttcacatata tgcatactct aagcactttg gctatcaaaa attgcatacg tgcacatctt 360  
ggatatttcta atacctatac atacacaaac ttcattgatga atcttgacta tctacacaat 420  
aagggtgctac atttcatggc cctttttt 447

<210> 32297  
<211> 210  
<212> DNA  
<213> Glycine max

<400> 32297  
agtttgacct atcccgaccc aaccagggca tagtcgggtca gtgagaacct gcgatgtacc 60  
taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca aagcaaggag 120  
gcttggtgtg gctggccagc tgtgaactct tattgatatg tgggttatgg cctctggtaa 180  
tcgattacca aggggtgggta atcgattaca 210

<210> 32298  
<211> 289  
<212> DNA  
<213> Glycine max

<400> 32298  
ttcgctcacg acattatata acacgccctg agtccatcga atttgaacca atttttaaca 60  
acactttaag cgctttctat agagaataac gtataacaca cgtactctat agaggaaggg 120  
agagattgta gagactaact atactagact cgatataaaa tacacgttat ttgagcgatc 180  
tacaaattga tacccttcac tgcattgtgaa ctgaagtaat tgcaatataa tataactgtc 240  
acagaaattg aacatgaaag actaatcaat tgcaacgtca cttgaagcc 289

<210> 32299  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 32299  
agctttgaac tattgtaaga cacattttct gcgaccttcg cgattctcga ctccatttca 60  
ttgaagcgca tatccacttg taattccaaa gtgtcaaccc tctcaccac aaaggtctca 120  
agaccatcaa acctgtccac aatcttcgaa agaagagatg aatattccac atgatgccct 180  
tctttacca cattctgacc acccttcttc acccaagacc catcatgccc tttctgataa 240  
ccaaaagacg ctatgactcg aacgcctata acga 274

<210> 32300  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 32300  
actcgccac ttacatcaac cagtatatta gcacacttga tatctcttta aaattgaata 60  
attgaattga aacgctcaga atgtagcaaa tcaatgcaaa ttcaagatat ttaagaagtt 120  
aatttccaag cactgcatcc aactttcatc ttttgcaatg attgaaagtc aagcattttt 180  
cacaatccga ataaaatctg tcaaagcaaa actcatcttc ccgagcggag aatcatactc 240  
agtatctggt ttctcaaaaa ttttctcaat ataaatatat gtgcaaatag agctataaca 300  
tactctctaa tataagaaca gaaatactat aactattggt aacacatggc tagaatgcta 360  
acttgtaaaa gaaacttcca ggacttcagt agcaaaatat tcttttattt ttcaattcat 420  
aatgcatat 429

<210> 32301  
<211> 326  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32301

agcttatgat ataagaagtt gggtttcttg attatgaggg aacaatatat tgcatgccct 60  
ttacaagtta gatggtggct ttgaattaat attaatggac atcactagtg ggtttttcat 120  
ggttagtttt gatttggata ctgatcgagt attcgaatgc gcatgtgttc ttcatcatt 180  
acctaactga ttgtccttga acactagatt tctcaccaac agaggcggca tggatagaac 240

cctagcctaa ctanctangt ttggtttcag gccttacgat gatataattac gatgagtgc 300  
ctcttatata tccaatattg ctttat 326

<210> 32302  
<211> 266  
<212> DNA  
<213> Glycine max

<400> 32302

tgagatccct acagtgcctc tcatgagtgc tcacatcaga cagcaccgag aactgcctct 60  
ggttgcacct ctgcacacg tacattttcg ggcagtggct tatcttgtaa tgggtcttgg 120  
cactcatcat tgacttcagt ggctcgccct tggcatgcct ctggctccac ctacacacct 180  
cttgaagaca cgaatacatc gttggcttca cactcatcta acactctata cctctgctga 240  
tcttacatgc gtgactcata tcagca 266

<210> 32303  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32303

cggaacaag gcaagaaagt tagacacttg aagcttctat aagccaatat gcacaatcat 60  
attgtgcta catgtatcga attaattctc ctacgtaat gaataactgt ttagtaaata 120  
taattgatac taaataaaaa taaaaatgat acttggatta acatgctgct cacttgggaag 180  
tatatcacat ttgattgcac gcttgcggtta aaagggaata caaggaaaaa acaaggattt 240  
cacaacctaa aacttctgaa attaacacag aaaaatgcat ttgcatcat tttctagtag 300  
ctatccacgt ttggcactta aaggaacatg ctttcatcat ggggagtcac cctaaacact 360  
accttgaaca ttttnccaag gattgacctc tgtctattct attctct 407

<210> 32304  
<211> 107  
<212> DNA  
<213> Glycine max

<400> 32304

ccttcgagcc tattttccac cttctttggt tcaaagctca ttacgagcct taaccgaaaa 60

accatgatgc cagcttaccc ttaacgaatg ttggagcttt ggaattg

107

<210> 32305  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32305

atccaccatc ctagcggttac aatattttatt aatcatataa tngnaagcat aagcattagg 60  
cacaattcca cttggcttca tattctcata catttaaaac ccttcccttt gaaggccttg 120  
cttgaaaaag ccgctcatta acacaccaca actatggtgg ttggcaacca aaccaaacct 180  
atccatcgtg caaaacaact tctttgccag cctaacatct gcactcttgc aacaccata 240  
aatcaacgta gtgtatataa caacattcag agagaaacca aactcttnca acatggccaa 300  
aagccgaaac cctttcatca agtcaccagc ttcacaacga cccttgatca taatcccaaa 360  
actgtaggca tccataacaa ctttacgctt gaattcatta tatacccacc aagctatatc 420  
gaaacaattt 430

<210> 32306  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 32306

tctgttttga ctgaaatcac gcaccacaat tttttttttt taataaaaag ttcacttttt 60  
tagcgtaaag gttgaagatt ctttgtaaac aatttttcatt aaaactcatg tgatatgtgt 120  
gtgattcggc tctatacata aattaaatgt cattaatgag tacggggaag ataatgtaac 180  
gttttagtaaa taattaggag aatatttgta gggttctaaaa atagaaaaaa atatgtgtca 240  
ttttctcaaa tttttgagag aaatccatat cattcactca tataaacatt gcatacaaat 300  
atatattgaa tataacaata tc 322

<210> 32307  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32307

atactcacgc ttgccttgcc ccttgatata tttgaggggt tcatgggttc tatgaatgac 60  
atattccttg ggataaaggt agtggttgcca tgtattcaaa gcccgtacta aggcatacaa 120  
ctgcttatca taagttgaat agttaagggt gggaccactt aacttttcac taaaataagc 180  
aattggatgg ccttcttgca tcaacacagc cccaatccca acatttgaag catcacactc 240  
aatttcaaaa gatttttgaa agattggcaa cgcaagtatg ggggcattac ttagcttttg 300  
cttaagaaca ttgaaagctt cttattgttt gtctcgccat atgagaccaa cattcttggt 360  
gagcatttca ttgagagggt cgtgcaatgt gctgaaatcc ttcaaggatc ggctataana 420  
acttg 425

<210> 32308  
<211> 246  
<212> DNA  
<213> Glycine max

<400> 32308  
agtttcggta ttcaatttct agcgtctcga ggtattacgg gactgaatca gacatccgag 60  
taaaacgcta ttgtcgtttg aaaatcctca gagctttgga acttaatctc gagcgtctcg 120  
atatattacc ggtctcaatc agacatccca gtaaaaagct attgccgtct gaattagctc 180  
tgagggttcag aattccaatt tcagcgtctc actcattacg ggactcaata agacattcga 240  
ccaaaa 246

<210> 32309  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 32309  
agcttttatcc gcagatccct cttgtaagac taggcctaga ctaaacaaca ttattgtaac 60  
aacataatta aaacaaaaac ttaatccgca gatccctctt gtaagattaa gtttcgatcc 120  
tgcttcaatc aagttctaag gcaacaatac atttcccaat gctaaagtca cctaactatg 180  
cacacaaatg gattattaga ccaaaagcat acaaacatta agcattgaat agggaaaaca 240  
tcatcaatta catattaggt atttacctca gctgttcatt agaaatcccc aact 294

<210> 32310  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 32310

tccgctttat aagtgcgggt ctgggagact aaggccaagt ggtctcgatg tgtgaagatg 60  
 atgttccaag acctctggat ttgggtccgac catgccctcc tgatttccag ctgggaaatt 120  
 ggcgggtgga ggaacgcccc ggcatttaca caacaagcat aatatccgat gacgagtccc 180  
 ccgaaggtag taatacctgt gacccgtcta tcaatttcga gcacgaaatg agccaaacgg 240  
 aagatgaacg agatgagggg gtgggacttc cttcggaact agaaaggatc gttgcccattg 300  
 acgatcaaga actggggcgt catcaagaag aaacagagca tagagacttg agaattggca 360  
 gtggaaagag ggaagtaaag atatgtgcag gcattaccgc acctatccgt gacgaattaa 420

<210> 32311  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<400> 32311

agctttgttg agacaacttc cttgagaagc ttgtttgaga aaacttcctt gagaagctag 60  
 agcttagcta cacacacccc tctaataact aagctcacct gcttgagaag cttacttgag 120  
 aagatctcta cagaagctag aacttagcta cacacacctc tctaatactg aagctcacct 180  
 acttgagata agaagctaga gcttagctac cacacccta taaaactac gctcaccccc 240

<210> 32312  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 32312

tgaatattat gtgcttatat ctattccac cactattggt ggtctctagt agtatcttgg 60  
 caccaaatac tcattggtga tgatatttca acttataagt tagactctga tatcaatgat 120  
 tcatatttgt cactattgca ttgaacattg atattgttct taccactaat tgagtagata 180  
 tgttacttga ctatattcat acttagattt ctttacagca agaaatcatg atcttagata 240

attgttggtt gtacactgcg acttccgcta tcttttgtat tcactactac atgatacatg 300  
 agtaaatac ttcctgctgt gagtgaataa aaacattgta gttaaattca cattacttta 360  
 tctca 365

<210> 32313  
 <211> 312  
 <212> DNA  
 <213> Glycine max  
 <400> 32313

ctctttatca cgatttgctt acatgcaagc taggaaatca acaccttcat ctactctctt 60  
 catcattcct cttcatttta tttctgagat acaagcttta ggtaaggggg ctctttcatg 120  
 tggtcatggc aatagacaat ggaatcctca aatgtcacct tatatatctg cacagtgtaa 180  
 gggcattcat attacaaatc ttattacaac tgctccggaa aacatgggtct gtctggggag 240  
 ctcacccatg tattctgcat atctttctca atttactgct gaaaatacaa tttcatgttg 300  
 aattggatga ac 312

<210> 32314  
 <211> 267  
 <212> DNA  
 <213> Glycine max  
 <400> 32314

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 actggcctca tgagaatatg ctatctgttg cacgtctctg actgtttact cgatgaatca 120  
 gattgtgttt gatgacctga tagcagctgt agaagaacca cgagcagtat gttctgctga 180  
 cttattaact tttgatattg tatcttctgt tgtccccacc agggctaagt ctctggctta 240  
 ctattgtgct cttctgcat accctac 267

<210> 32315  
 <211> 127  
 <212> DNA  
 <213> Glycine max  
 <400> 32315

agcttgtaac acctaacaga cgatggcaga cgatcatatc tagaagttga agacaatatg 60

catccctat actagcacac gaatggattg cagaagagtt cacagattat aacacaggaa 120  
tactgcc 127

<210> 32316  
<211> 424  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 32316

tatctgacaa agatgcgtat caacagtttt tgcattctct tgattatgtc aagattcana 60  
ataatgtaag ttctatttct ttactctaata ttctagtgat ttattacctt ggaactggta 120  
tttttttttt ggaaggcgaa gataatatat tatatatgaa accaagtacc agaggtaacta 180  
cataatacag aaaaggtcct gataatcagg agatacagca cctccacag atgaaaaccc 240  
tactaacaga agctttaact aaaagctata gacatatttg aagaccaact ataataagga 300  
atctggaaat tcctttccca acccctcagc cagggtccata agagaaacag agtgctatct 360  
gtcagtctag tgatatcaaa cgttngattc tggaaaatta tatcatttct gagcctccaa 420  
attg 424

<210> 32317  
<211> 268  
<212> DNA  
<213> Glycine max  
  
<400> 32317

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tttggattat atatcaaaat gttatgatcc aaccttaacc ataatacatga ctaacataag 120  
ctatgtttta taagacattt tagttaattc tttattttta ttagttgaaa aactcaattg 180  
ttcaataaac aagttttttt aataccttct aatctttgat atcttttcta attctacatt 240  
ttctaagtac tctaacatct aactttac 268

<210> 32318  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32318

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tggcagtcaa ccgataaaaag aacaaagacc acaaagcagg gaggcttgtg tgggtggctgg 120  
ccagcaatga gtcttgagtg agatttgga tatggcttct ggtaatcgat taccaagggg 180  
aggtaattga ttacaaggct taaaagtga gacaggaagc taagatgggc tctggtaatc 240  
gattaccaag ggagtgtaat cggttaccag gcttgaaaat gagatcacga agctaggagg 300  
gcttctggta atcgattacc aaggggtgta atcgattacc aggcttanaa atgggactgg 360  
aatgttgaac gggcctctgg tgatcgatta ccaggctgtg tgatcgatta cacagaggaa 420  
t 421

<210> 32319  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32319

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gcacaacaag tttttccaca tccacaaagc gtgcataaac ctaccatccc ctgttgccca 120  
cctccaactg agctcacgta ctcccacgta gcccatatcc ttgtttctct caacaccggg 180  
tccccatcaa tcttcccaag cttccacaac atccaagtaa tacaacattt aaacagcaca 240  
agctatcaca gcaaaattct tctgcacttg tgcaaaattc tgctgcacaa tttcacagca 300  
aaaatctgca caaagtgcag atttcgaaaa ccacacttcc nctcatcaaa tcttgcccaa 360  
atcaaatcct acaagtccca aatcatgtat caatcat 397

<210> 32320  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32320

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tgcttctggg ggtgttgggt tgccccagac aagaggaatg aaacaaagaa aaaaacctga 120

aggtgatttg gaaaatgggg ttgtgggtgc tggagttgtt ggcgccgatg gtgatggcgc 180  
 cgatgggtgat cacactgggtg gtcccatgt tgttgaggaa tttgctgggc tttttggtga 240  
 agggcatgat ggtgggggtga atcttggcctt gggttgtgaa agttttgacc tttgggggtga 300  
 agtagagggg cagcatgttc atatgggtgg ctttggggga ggatgtggga aactgggtca 360  
 ngttgaaggg caggttctag gtcagccatg gagcaatgca aatgctggtg 410

<210> 32321  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 32321

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 ggggtggatcc aagtgtccg atcatccatt tgcatactca tgtttggcgg catactcacc 120  
 gttgttcatt tctttacgaa ttccatcata actaagaaaa caccaaggca cccctataac 180  
 actcgatcca gaaaaatgga taatgaagag ggcgtgcacg aacagatgaa ggccgatcta 240  
 tcggccttaa aagatcaaat ggcttccatc tcggagggtca tgttcaaact ccacaaaacc 300  
 atatatgata aagccaccgc aaccgcctca gtacagctag ggaagcggag ccgtgctgaa 360  
 cccgccttaa tccgggccta a 381

<210> 32322  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32322

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 gataaaagaa aaaaatatga aaaatcacac aagttggcag gaaaatcagt gtctaggaaa 180  
 aaaaagtga aggggaagtgt gaaaacaagt gccaaaacta gaggtttctt gagtcttatt 240  
 tttcttttag ttttttact ctactctaga gccatttttag gtttcccttt gagtccctagc 300  
 ttgcttttat gtgcttttca ttgctttaat tgttgaataa tccttgaaaa tgtcttggtta 360

aaactttatt ggtttagctc tcatttcatt cttnttggnc tttggntatt gcttgtctct 420

ttgttttctt ggttgtgag 439

<210> 32323

<211> 271

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32323

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cgcaaaagat caagaggagt tagtgggtta aaaccataaa caacttcaa aggagaacaa 120

ttagtggtgc tatgaacaac tctattgtaa gcaaattcaa catggggtaa acaagctctc 180

caagttttta agttattcct canaactgtc ctaagcacag ttcccaaagt cctattaaca 240

accttcggt gcccatcgt ttgtgggtga c 271

<210> 32324

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32324

gtggtcttcg gcatcacatt ttaacttgat ccatcggcga taagtaccgt ggcgacgaca 60

tggtccatac atctcaccga cacatgtaga gccttggtgt gtcctctccc ctcaacggga 120

atctcttctt tcgcaaacac gatataattg ttggcgggtta tatgattaac gatgccttcg 180

aaaccctcca ctgagatatc atgtgctaca tgggcatcga taaggacctt tatcaacagc 240

gcacgatgag gctcggagtt tatgagcaga tcaagcatag agatccttgt tggagtttta 300

ttcaattgct cgactacctt aaactcgcta tgctggatga ggcagaggaa ctcatgggcc 360

tcttncaaag tcacggtctt tccttgaaga cctctttctt ttcaag 406

<210> 32325

<211> 200

<212> DNA

<213> Glycine max

<400> 32325

**THE UNIVERSITY OF CHICAGO**

<400> 32326

<210>	32327
<211>	251
<212>	DNA
<213>	Glycine max

<400> 32327

<210>	32328
<211>	426
<212>	DNA

**THE UNIVERSITY OF CHICAGO**

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 cttgaattgt ggtaaaaggc tcattaaacc ttggagctag gaataagggtg agaggtaatg 360  
 gttatctttg ggtcattgag cttaaacc aa gttcctttgt taaatgttca agggattgac 420  
 atttaat 427

<210> 32331  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 32331

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 aagaaagact tcacatcatt tatgaaatgt atattactat caaatatcat tatgtcatct 120  
 gcatacaaac ataaaatgac acatccaata tcatacaatt gtttcacata cacacattta 180  
 caactattat tgatttgaaa accatatgaa agaacaactt gatcaaactt ttcatgtcat 240  
 tgctttggag cttgtttcac accacataaa aatttataaa gtttgtaaac tctcttttct 300  
 ttacccgatt ctacaaaacc ttacgttagc tcatactaaa ttcttct 347

<210> 32332  
 <211> 159  
 <212> DNA  
 <213> Glycine max

<400> 32332

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 tgattgaata agtggtcaag atacttgga tgcaaaacaa agccttgctt ttatagactc 120  
 ttcatgtctg gccaaagacaa ccattagaag agttatgac 159

<210> 32333  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32333

tcagaccaaa gcattctana atctatgtat ctaaaattcc tcaatttagt ggatttcaag 60



<223> unsure at all n locations  
<400> 32336

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ccgaacaaag gcgagtatg gaggattggc ttgaggggtcc acacttaggc aattatgaaa 120  
ctcagctcca aactcgaaaag tggaggacac acgaacaacc ctaagcaaga acattcatgt 180  
ggctccgaac aaggacgaga atggaggatt gccttgaggg tcctctctta tgcaatcatg 240  
aaacacagct ncatactcaa aagtggagga cacacgaaca gccctaagca agaacattca 300  
tgt 303

<210> 32337  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 32337  
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tatgatcttt caagcaacag atacaatcca ggttggagga atcatccaaa tctgagatgg 120  
acaagtcttc cataacaata acagcatgtc cctcccttcc agaatgctgc tggtcctagc 180  
aagccatatg ttctctctcc aatgcagcaa caacaaagac aacaagcaac tgaggccct 240  
ccttaacctt ccttagaaga gttagtggg caaatgtcca tccagaatat gaaatttcag 300  
caacagacaa gagcctccat tcagagtctg acaaatcaga tggggcagat ggctactcag 360  
ttaaaccaag cttagtccca aaattctgac aaactgcctt cacaaactat gcagaatctg 420  
aaaaatgtga gtgtcat 437

<210> 32338  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32338

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cattntaatt attgattggc cttaattgtc aattaattac gcagttttat tatttgggcc 120  
cattcagcta atttgatgtt tttaatctaa tttcacgaat taatgaagca ttgggcttga 180

atctagaatt gggcttggac ttgaagaggg cagtctaatt taaaattaga tcttatctta 240  
tctagatatt atttagattt gatctcatct agatattatt tcattctagat cttatcttat 300  
cttatcttat ctagatttga tttgatttta cttatgggct tggattttaa acatatttgt 360  
aagctttggg gctgaaaaaa actatataac agcaccaagg ttctagttaa ggggactccc 420  
tctctccctc gcggg 435

<210> 32339  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 32339  
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attaattttt tgctttacct tctcttccat tggtgcttct tcattttttc tccatgtatc 120  
tcctcacatg tcttgtgcta aatgttgta acatgagtct ttatagtffc caccgattaa 180  
acttgctata gaagctagat ttgattttct atggctcaca tttcttgffc tttgtcttga 240  
accatgactt gtgctgagtc taggttcctt tg 272

<210> 32340  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32340

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catgagagaa attacaggtg ccaaaagggg gagacataaa aacaaaaaag gtattgtgaa 120  
aggagagat ggagataatt caatgtgaga aagaagtggg gagacatgga ttagtttatt 180  
ttctttttta ggtcttttct aaaagttaat ttccttttaa tggatgcatg gacatgtcaa 240  
tatagataaa tttcattgga tgtttatgta aatagatttt ataattgtcaa tgcataatata 300  
ttatgagtta atggctcatgc acaagcataa agtaaattta tcttatcatc taattacaaa 360  
ttattgttta gatgattctt aagataatta ttgtaaaagt caataaactt atcgtacatg 420  
atcatttgta attaaataac 440

<210> 32341  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 32341

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 gaagcaacta taacgtggca atgggtataaa ttgcttaagg gagaaaatct tattggaaaa 120  
 catttcaacc atcctccgga tgateccatat ggttcttggg atggaaactt tacgggtgcc 180  
 cttgaaaacc cattcccagc caaaactaaa ccagattcct taaaaatgag ttctaaaggc 240  
 tcatctgatg atgacattgc tgggtctgag gatgagagtc cgacaagtca cgacagatac 300  
 acaacttcaa tgaatcgctc tgctggaaat gatc 334

<210> 32342  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 32342

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 tgctgcaatt taaggagat gagaaatgag gcttatgatg ggcaaaaatg acttcaacat 120  
 tctaagatta tctgccttgg gcttgatgta cgataagcca tagatagtga tctgccttgt 180  
 tttcttgggc ttgatgttag cctattttaa aaatgaataa gctgcaaac caattggaga 240  
 aagtcaagtc tcttactcaa gatcttgaag aagggttga gtttctatct aagcgtgtga 300  
 taatgattgg acttgccttt cttattccct taaaacacta acaagtacct ttaaataact 360  
 aactgcccc tcaaatacca acattatact aactactgtt cagcttccca aaatttatat 420

<210> 32343  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 32343

agcttttatt attgacatca ggggtgaagc taattaaatt ctatttggtt gtagaggggt 60  
 atatggctac accttgagc atgatgtatt ttttttttta acttggtgtt attttttttag 120

<400> 32344

<210>	32345
<211>	202
<212>	DNA
<213>	Glycine max

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agcttacatt attaccaaatt taaagctaga tagatctagt ttactgattt actacttgca      60
aaccaattgc ttaatgttgt gaactgttaa aagcgttatc aatggcggga cataaaagct    120
ccatgacaca accacttgga gcattttctt tatcctatct ttactctatc gcgtagntga    180
ttaagtatta agttccatga ca                                         202

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<223> unsure at all n locations  
<400> 32346

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ttgtagtcac agtagcaagt tcaactactg atatcatatc acaaaacaat gaaggattat 180  
tagggaagtt tgattagttc gaaactgcag caattttattg gaaaaaaaac aagcttgcaa 240  
atacctagtc acataaaaac atttattgaa aaaaaaaaca agcttgcaaa agctcataaa 300  
aatgagaaaa gaagcaaaca tgtaccttgc gttgatgtca gactccaacg gaggatgctc 360  
aacctcgcaa tagtgacaaa cccaacggc ggtcataaac cctaacggca atgatggtga 420  
ggaggagacg accatgat 438

<210> 32347  
<211> 223  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32347

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cggtaaatca gcaagattat cttctgattt gcagtagatg agcttgattt ttnccttgctc 120  
aactttgtcc gtgataaaat gatacctagt atcaatgtgc ttgttgctcc catgatctac 180  
agggttctta gcacgactga ttgctgactt attatcaatc agt 223

<210> 32348  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 32348

ccgcttgaag ttgaagaaac taaagtttgt ggctgcaatg aataagtcgt agaacatgga 60  
tccaacaatg atggtgaaga acctgggttat aagcaacatt accattgtta cctaaaaccg 120  
aagagggcca ttggggccaa agaccattg gaagcacttt cagagaagga ggcattgcta 180  
ttccaggcca atgaagaaaa ggaaaatgca aagaagaggc caccctcatg aatgagaaaa 240  
ttgcttggtc tcagagagaa aagaacttca actccaaact ccatcagctg aaaaacatgc 300



<400> 32351

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ctaaagggttg ctatattcat aggtactaca atctgtacga gaacagggct tctcaatcct 120  
tgatgccagg cctacatcca tgcactcaag acccatttgc atgttctctc tccagtacct 180  
tgaacttcga ccattaacaa ctggaaccga atctacatta tcatatgcag aagccaccgc 240  
cgaccaacac ccccccaaa catacacaaa cctccatacc attcatcaat gcatctacat 300  
aatgatatat ctcatgccac ggatgtcact gcaccactta tatgacgtct tcggacaggg 360  
acccc 365

<210> 32352

<211> 440

<212> DNA

<213> Glycine max

<400> 32352

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tattggcaat cggaatctgg cattagttgc tatctaagtt agagaatctc atacgaaatc 120  
cataaatagg acccattatc tgcttttaaa cttgggtagg tgggtcttaga tggagacgca 180  
cttcttttaga taccttattc tcaatcccta tgaagcaatg ggtttgaata agaagtatat 240  
ggaggcgaat tcctttcaaa catagatcag ggctaagtat atataattta aagaacacta 300  
ctaggctatt gaatgtcaaa cccacgtcat gattaactcc tacatgattg atgttttcgg 360  
ccgcctgaat agttgaatta taacaaatat cctgtaactt tgacatattg ttatatatac 420  
atgcaactcc tttctcccaa 440

<210> 32353

<211> 251

<212> DNA

<213> Glycine max

<400> 32353

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tcacaagacc tgttgatctg attgcaaat gactaacact ctatcatatt acagacacat 120  
aaacaatttc aacacttact cttttctctc aaaatgagca cagtgtttcg agagactata 180

tgaactttac aagaatccac atagagagct ttttacgaac agaatttgaa taatgagcgc 240

tccaattcat a 251

<210> 32354  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 32354

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tggtgcctcc tctcacctct tctcatttgt cttccgctgc atctccatgg tggaaaatca 120

ccattatagg acctcattga agctgaaaga tccagcctcc atagaagccc cacaagcaag 180

cttccatcac aacctttcca tcctatgtag agatcaatga tattgaataa cccaacaaaa 240

atattagatg gcttacagag atgcaaaaca taacatatat ttgacatatg atcttataac 300

atgctatgat tttggatttt tactacctaa cacatcttga atcttgtcac ctaagtacat 360

caactaaagt gcttgatata ttttataaag taaaccatcg atacataaat ataatat 417

<210> 32355  
<211> 207  
<212> DNA  
<213> Glycine max

<400> 32355

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gcgtgtcacc ctgcggagtg tcggtgttgt tagtcaagaa gaaggatgag accataaagc 120

tatgtgtaga ctatcgtcag ctaaacaagg tggcgattaa caataggcac cctctgccta 180

gtatagatga cctgatggac tacttag 207

<210> 32356  
<211> 419  
<212> DNA  
<213> Glycine max

<400> 32356

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tctgaaacga aactaaagaa acaaaggaaa gggagaaaat agaaagctaa gttctaagat 120

acaaaatgcc caaggcattt gtcggggaat tcgaggggag taaacaccag acaaatttac 180  
 accaatgagc catgagcaac cacataaggg aatttaacac cacacttta cccaaaacct 240  
 taaggctcaa gtttatgggt cttctcctta cttatatggt gctcaacttt tcaacttcca 300  
 tcctatgtgt gctcaacttt tatgggagca aaagaagaag ctccatgctt tgtcatccag 360  
 tcagcacagt caatggggat tcattctcat aacttttgag aagataaaaa gaaactctg 419

<210> 32357  
 <211> 183  
 <212> DNA  
 <213> Glycine max

<400> 32357

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 tattatatgg gtactaccg tagcatctct ttactttga tgctatgat ctattgcaca 120  
 tatcgctggg acgtctatgt ccgatatgat taaccgttgc cttcatggg atgggagctt 180  
 gac 183

<210> 32358  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 32358

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 actccacgag tctctccatt ctatacttca tattcactgg gataaaatga gcagatttgg 180  
 tgagtcgata tactatgacc cacacagcat catgtccacg actagtcttg ggtaaactag 240  
 atacaaaatc catagatatg ctctcccatt tccattccgg aatctccaat ggcttcaatt 300  
 ctcccgatgg tcgttggtgc tcaaccttag ctttttgaca ggtcaaacaat cttgctacat 360  
 attcggctac atctttcttc atgccatgcc accaaaaact tctcttcaaa tcttggtaca 420

<210> 32359  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 32359

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atagcattga ccatacatga tactagctag agagaataga aactattgat aatagtacac 120  
tccataggta gtaaaccaca aaaaacttta gtggcttgca taactttagt taaatttagc 180  
ggctnttaat gcttatccta tatatatattat aatgacataa gtattttctaa cttgttacct 240  
cctaagagat tccctttgga gtccttactg gtnntgtaat cttttaactg aaacattgca 300  
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<210> 32360  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 32360

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taattcagaa tcaactaaaa ttagtgagaa aaattagttc cgtgaagaaa atccaagccg 120  
aggcgcttcc gtaacgtttc cgttgggtgat ttgcggaagg ttttcgatcg ttcttcgacg 180  
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ttactcaaaa tatgatttga gaccananaa tgatgttcat atttgcttat catgttattt 180  
gtggatgaaa cttatattgc actctccata ctacgggttg cggatatacaa ttacaaacag 240  
acaataatac aagttcatgt aaaatcatta caaggcgttg catgcaattc actagtgaag 300  
gcacgaatga acaccctctt gaaaat 326

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ccccgtcgag aatttccgcy ccaccgtgtt ccccgctcga tactccgtca aggcctgtggc 180  
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gataatctgc agatatgggt tgcccaagaa gatcatcact gataatgcca ccaatttaaa 180  
caacattatg atgaaggaaa tgtgtgagga tttcaaaatc caacaccata atttcacgcc 240  
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cttagatttt cttcacggaa acaatttttc caagcaaatt cgaaggagag agaagtgcct 180  
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 gataatcttt tcttattatt ttatctttta tctttctctc cccctatgtc aacatcaaac 300  
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<211> 356  
<212> DNA  
<213> Glycine max

<400> 32389

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agaaagacag attgttcttg cctttgtttc ctccccacac tggccaaatc acgtgatgat 180  
ggatattgac ccgagtatat acattttggg gcctaacgct aaaaatattt atgggatctc 240  
tcttttacia gaattttaga gaaacttact atatcatata aaatatcaat ctttctatcc 300  
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<210> 32390  
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<212> DNA  
<213> Glycine max

<400> 32390

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atcatgat 128

<210> 32391  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 32391

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gcctacctgc cccaccgccg ccgttacaat tagacactat attactacca aaaactaata 180  
cccacttacc cagctattag aggcgaaact tctcctcaaa aaccattact taaatataac 240  
taacttaata caaattacac cccttagacc gaacatacag accctaccac aaattgaaga 300  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 <212> DNA  
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<223> unsure at all n locations  
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 tcactatcta taaatatagg ttccatcaaa tccatttaca cgacctgctc tcacacactc 300  
 aacacacgac aacaaagtnt gttccccctct ctttcgcgcc tgcgcgcacg cagccacac 360  
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<400> 32394

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